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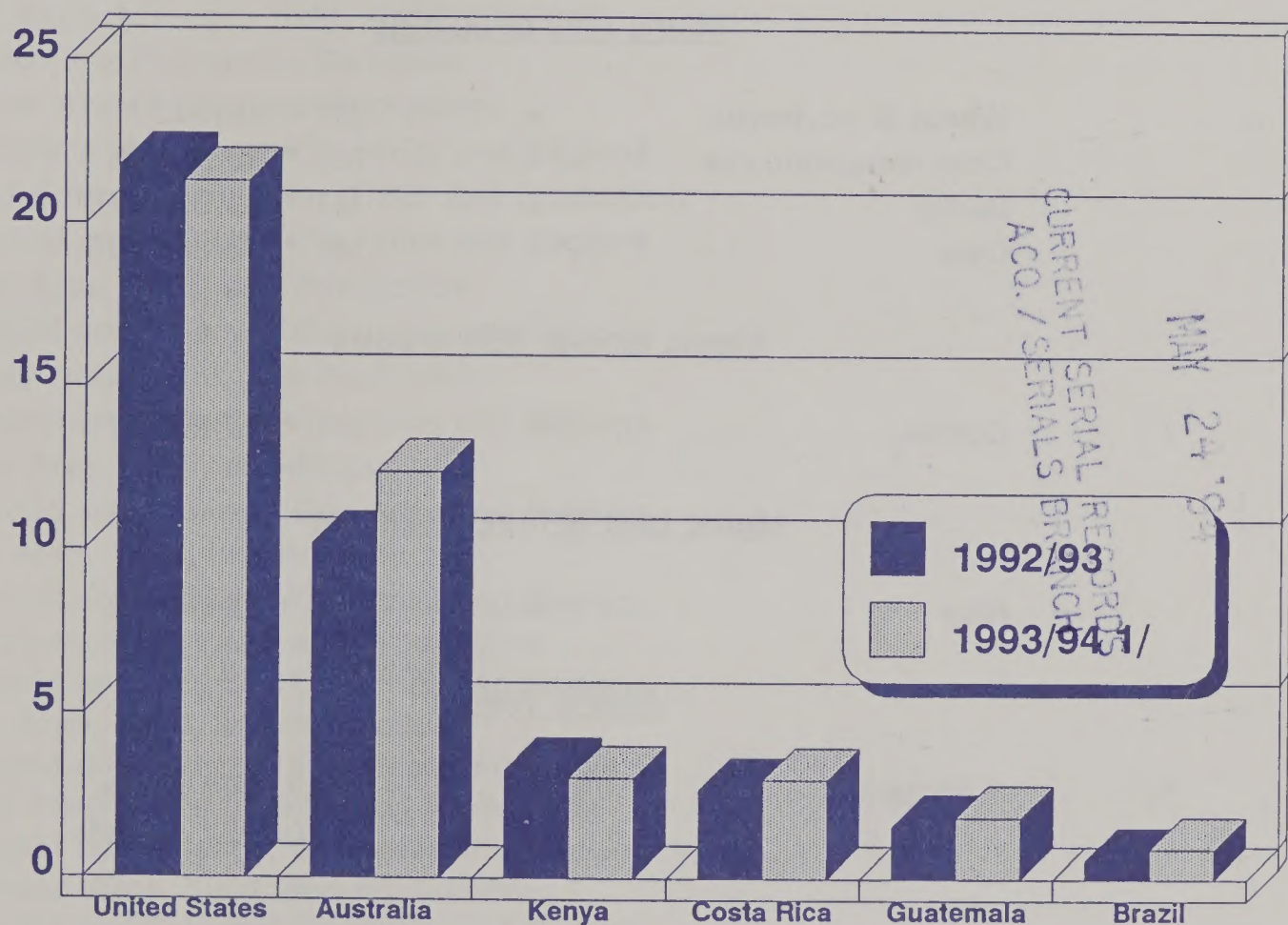
Circular Series  
WAP 4-94  
April 1994

Sta

# World Agricultural Production

## Macadamia Nuts In Selected Countries

(1,000 Metric Tons/Wet-in-shell basis)



1/ Preliminary estimate for the United States and forecasts for other countries.

### Production Articles This Month...

Macadamia Nuts In Selected Countries

Winter Grains

Southeast Asia Grains

Forestry In Western Europe

China Databases for Grains, Oilseeds, and Cotton



This report draws on information from USDA's global network of agricultural attaches and counselors, official statistics of foreign governments, other foreign source materials, and results of office analysis. Estimates of U.S. acreage, yield, and production are from the USDA's Agricultural Statistics Board, except where noted. This report is based on unrounded data; numbers may not add to totals because of rounding. This report reflects official USDA estimates released in the World Agricultural Supply and Demand Estimates (WASDE-289), April 12, 1994.

This report was prepared by the Production Estimates and Crop Assessment Division (PECAD), FAS/USDA, AgBox 1045, Washington, D.C. 20250-1045. Further information may be obtained by writing to the division, by calling (202) 720-0888, or by FAX (202) 720-8880.

**The next issue of World Agricultural Production will be released after 3 p.m. Eastern time on MAY 11, 1994.**

### CONVERSION TABLE

#### Metric tons to bushels

Wheat & soybeans	=	MT * 36.7437
Corn, sorghum, rye	=	MT * 39.36825
Barley	=	MT * 45.929625
Oats	=	MT * 68.894438

#### Metric tons to 480-lb bales

Cotton	=	MT * 4.592917
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#### Metric tons to hundredweight

Rice	=	MT * 22.04622
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#### Area & Weight

1 hectare	=	2.471044 acres
1 kilogram	=	2.204622 pounds

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# PRODUCTION HIGHLIGHTS FOR 1993/94

April 1994

## WHEAT

<u>Country</u>	<u>Current Estimate</u> MMT	<u>1993/94 Monthly Change</u> MMT	<u>Monthly Change</u> (%)	<u>Change From 1992/93</u> (%)	<u>Comments</u>
World	560.3	-1.9	-0	-0	A decrease in total foreign output this month reduced estimated production.
United States	65.4	NC	NC	-2	No change this month.
Total Foreign	494.9	-1.9	-0	+0	Production is estimated down from last month due mainly to revisions in the FSU-12 and the European Union.
FSU-12	82.8	-2.8	-3	-6	Russia's estimated production is reduced as official estimates indicate lower harvested area and yield.
European Union	80.3	-0.2	-0	-5	Production is revised lower due mainly to reduced output in France and Ireland.
Iran	10.9	+0.7	+7	+7	Production is estimated at a record. Higher harvested area and yield are estimated.
Mexico	3.0	+0.2	+7	-6	Production is revised higher based on an increase in harvested area.

## COARSE GRAINS

<u>Country</u>	<u>Current Estimate</u> MMT	<u>1993/94 Monthly Change</u> MMT	<u>Monthly Change</u> (%)	<u>Change From 1992/93</u> (%)	<u>Comments</u>
World	784.3	+4.3	+1	-9	The 1993/94 crop estimate is higher this month due to increases outside the United States.
United States	187.5	NC	NC	-33	No change this month.
Total Foreign	596.8	+4.3	+1	+2	Production is estimated higher due to increases in the FSU-12, Mexico, and Brazil which more than offset decreases in Sudan and Tanzania.
FSU-12	89.4	+1.2	+1	-3	Production is estimated higher in Russia and Ukraine, but lower in Belarus. In Russia, barley, corn, and oat output are revised higher, while millet is estimated lower. In Ukraine, corn is revised higher. In Belarus, a lower barley and oat estimate offset a higher rye output.



# COARSE GRAINS, continued

<u>Country</u>	----- Current Estimate MMT	1993/94 Monthly Change MMT	----- Monthly Change (%)	Change From 1992/93 (%)	<u>Comments</u>
Mexico	19.6	+1.1	+6	-2	Production is estimated higher due to an increase in corn yield, which more than compensated for a decrease in harvested area. Sorghum output is revised higher due to increased yield.
Brazil	29.7	+1.0	+3	+4	Favorable weather increased projected corn yields. The outlook for crops in the North continues to be favorable.
Egypt	5.9	+0.4	+7	+11	Corn and sorghum production are estimated at record levels due to higher harvested area and bumper yields.
Iran	4.1	+0.3	+8	+8	Barley production is estimated at a record level; yield is increased.
Sudan	2.9	-0.9	-24	-35	Sorghum production is revised lower this month. Harvested area and yield estimates are reduced due to unfavorable weather and high input costs.
Tanzania	2.8	-0.6	-17	-10	Corn and sorghum output are revised lower as poor second-season rains negatively affected area and yield.
Indonesia	5.5	-0.2	-4	-4	Corn production is reduced due to a lower estimated harvested area.

# WORLD RICE (MILLED BASIS)

<u>Country</u>	----- Current Estimate MMT	1993/94 Monthly Change MMT	----- Monthly Change (%)	Change From 1992/93 (%)	<u>Comments</u>
World	348.0	+0.5	+0	-1	The 1993/94 crop increased this month due to larger estimated foreign production.
United States	5.0	NC	NC	-13	No change this month.
Total Foreign	343.0	+0.5	+0	-1	Production is estimated higher as increases in Brazil and Burma more than offset a decrease in Indonesia.
Brazil	6.9	+0.3	+5	+3	Production is estimated higher as beneficial weather in the northern regions of Brazil favor increased plantings, while in the Center-South, early-harvest results indicate a slightly higher yield.



# WORLD RICE (MILLED BASIS), continued

<u>Country</u>	<u>-----</u> <u>Current</u> <u>Estimate</u> <u>MMT</u>	<u>1993/94</u> <u>Monthly</u> <u>Change</u> <u>MMT</u>	<u>-----</u> <u>Monthly</u> <u>Change</u> <u>(%)</u>	<u>Change</u> <u>From</u> <u>1992/93</u> <u>(%)</u>	<u>Comments</u>
Burma	8.8	+0.3	+3	+13	Production is revised higher as estimated harvested area is increased due to an expansion in tubewell irrigation.
Iran	1.7	+0.2	+10	+10	Record production is estimated due to reports of bumper yields.
Indonesia	31.0	-0.3	-1	-1	Production is reduced due to lower-than-expected harvested area.

## OILSEEDS

<u>Country</u>	<u>-----</u> <u>Current</u> <u>Estimate</u> <u>MMT</u>	<u>1993/94</u> <u>Monthly</u> <u>Change</u> <u>MMT</u>	<u>-----</u> <u>Monthly</u> <u>Change</u> <u>(%)</u>	<u>Change</u> <u>From</u> <u>1992/93</u> <u>(%)</u>	<u>Comments</u>
World	223.4	-0.3	-0	-2	Production is forecast slightly lower this month due to a reduction in foreign output.
United States	57.7	+0.0	+0	-16	Production is estimated slightly higher due to increased peanut output.
Total Foreign	165.7	-0.3	-0	+4	Production is estimated lower due primarily to reduced cottonseed and soybean output in India. Small increases for China rapeseed and Argentine sunflowerseed were partially offsetting.

## SOYBEANS

<u>Country</u>	----- 1993/94 -----	-----	Change	<u>Comments</u>	
	<u>Current Estimate</u> MMT	<u>Monthly Change</u> MMT	<u>Monthly Change</u> (%) <u>From 1992/93</u> (%)		
World	113.4	-0.2	-0	-3	Production is estimated lower this month due to a reduction in foreign area and yield.
United States	49.2	NC	NC	-17	No change this month.
Total Foreign	64.2	-0.2	-0	+ 12	Production is estimated lower due to reductions in India and Ecuador. However, official statistics from Austria and France put soybean production slightly higher.



## SOYBEANS, continued

<u>Country</u>	----- Current <u>Estimate</u> MMT	1993/94 Monthly <u>Change</u> MMT	----- Monthly <u>Change</u> (%)	Change From <u>1992/93</u> (%)	<u>Comments</u>
India	4.3	-0.3	-6	+37	Production is estimated lower based on slightly reduced area and yield. However, harvested area is still a record and yield is above the 5-year average. Farmers are reported to be holding back large quantities of soybeans, harvested months ago, in the hope of receiving higher prices.

## COTTONSEED

<u>Country</u>	----- Current <u>Estimate</u> MMT	1993/94 Monthly <u>Change</u> MMT	----- Monthly <u>Change</u> (%)	Change From <u>1992/93</u> (%)	<u>Comments</u>
World Total	29.3	-0.4	-1	-7	The 1993/94 crop is reduced this month due to a decline in production outside the United States.
United States	5.7	NC	NC	+1	Production is unchanged from last month.
Total Foreign	23.7	-0.4	-2	-9	Production is estimated down from last month in India, Paraguay, Uzbekistan, and Brazil.
India	4.1	-0.1	-3	-12	Yield is estimated lower as a sharp drop in crop arrivals from northern India and Gujarat indicates the completion of harvest operations. This reduction more than offset higher arrivals in Maharashtra and Andhra Pradesh where the harvest is nearing completion.

## PEANUTS

<u>Country</u>	----- Current <u>Estimate</u> MMT	1993/94 Monthly <u>Change</u> MMT	----- Monthly <u>Change</u> (%)	Change From <u>1992/93</u> (%)	<u>Comments</u>
World	23.5	+0.0	+0	+1	Production is estimated higher this month due to a slight increase in U.S. and foreign output.
United States	1.5	+0.0	+2	-21	Production is estimated higher due to an upward adjustment in harvested area.
Total Foreign	22.0	+0.0	+0	+3	Production is estimated slightly higher this month due to higher yield in South Korea.



## SUNFLOWERSEED

<u>Country</u>	----- Current Estimate MMT	1993/94 Monthly Change MMT	----- Monthly Change (%)	Change From 1992/93 (%)	<u>Comments</u>
World	21.0	+0.1	+0	-2	Production is estimated higher this month due to a slight increase in foreign output.
United States	1.2	NC	NC	-0	No change this month.
Total Foreign	19.8	+0.1	+1	-2	Production is estimated slightly higher due to recently released official Austrian statistics that raised yield. However, this increase was nearly offset by reduced official estimates from France.
Argentina	3.4	+0.1	+3	+10	Production is estimated higher based on harvest reports that yield is better than last year. As of April 4, an estimated 59 percent of the crop was harvested, compared to 78 percent last season.

## RAPESEED

<u>Country</u>	----- Current Estimate MMT	1993/94 Monthly Change MMT	----- Monthly Change (%)	Change From 1992/93 (%)	<u>Comments</u>
World	27.2	+0.2	+1	+7	Production is estimated higher due to increases outside the United States.
United States	0.1	NC	NC	+39	No change this month.
Total Foreign	27.0	+0.2	+1	+7	This month's production estimate is up primarily due to an increase in China as well as small increases in Sweden and Austria.
China	7.0	+0.2	+2	-9	Production is estimated higher based on recently released official estimates by China's State Statistical Bureau. Yield is slightly higher.



## COPRA

<u>Country</u>	----- Current Estimate MMT	1993/94 Monthly Change MMT	----- Monthly Change (%)	Change From 1992/93 (%)	<u>Comments</u>
World	4.7	NC	NC	-2	Production is unchanged this month. Output is forecast below the record 5.3 million tons set during 1985/86. The Philippines and Indonesia account for 70 percent of world output.

## PALM KERNEL

<u>Country</u>	----- Current Estimate MMT	1993/94 Monthly Change MMT	----- Monthly Change (%)	Change From 1992/93 (%)	<u>Comments</u>
World	4.4	NC	NC	+9	Record palm kernel output is forecast for 1993/94.

## PALM OIL

<u>Country</u>	----- Current Estimate MMT	1993/94 Monthly Change MMT	----- Monthly Change (%)	Change From 1992/93 (%)	<u>Comments</u>
World	13.9	NC	NC	+7	Record production is forecast for 1993/94.



## COTTON

<u>Country</u>	----- 1993/94 -----		<u>Monthly Change</u> (%)	<u>Change From 1992/93</u> (%)	<u>Comments</u>
	<u>Current Estimate</u> MBALES	<u>Monthly Change</u> MBALES			
World Total	76.7	-1.0	-1	-7	The 1993/94 crop is reduced this month due to a decline in production outside the United States.
United States	16.2	NC	NC	-0	Production is unchanged from last month.
Total Foreign	60.6	-1.0	-2	-9	Production is estimated down from last month in India, Paraguay, Uzbekistan, and Brazil.
India	9.6	-0.4	-4	-12	Yield is estimated lower as a sharp drop in crop arrivals from northern India and Gujarat indicate the completion of harvest operations. This decline more than offsets higher arrivals in Maharashtra and Andhra Pradesh.
Paraguay	0.9	-0.2	-14	+38	Yield is estimated lower as boll weevil, bacterial blight, and blue disease losses were more severe than earlier anticipated.
Uzbekistan	6.2	-0.1	-2	+3	The Uzbek Government lowered its official estimate, reflecting a slight decrease in harvested area and yield.
Brazil	2.0	-0.1	-5	-5	Yield is estimated lower in the Center-South as a result of excessive rains during February and March.



TABLE 1

## U.S. Crop Acreage, Yield, and Production 1/

COMMODITY	PLANTED AREA			HARVESTED AREA			YIELD				PRODUCTION			
	Prel.		Proj.	Prel.		Proj.	Prel.		1993/94 Proj.	Apr.	Prel.		1993/94 Proj.	
	1991/92	1992/93	1993/94	1991/92	1992/93	1993/94	1991/92	1992/93	Mar.		1991/92	1992/93	Mar.	Apr.
	--- Million acres ---			--- Million acres ---			--- Bushels per acre ---				--- Million bushels ---			
All Wheat	69.9	72.3	72.2	57.7	62.4	62.6	34.3	39.4	38.3	38.3	1,981	2,459	2,402	2,402
Winter	51.1	51.1	51.7	39.4	41.9	43.8	34.8	38.3	40.3	40.3	1,373	1,607	1,769	1,769
Other	18.8	21.2	20.5	18.3	20.5	18.8	33.2	41.6	33.6	33.6	608	852	633	633
Rye	1.7	1.6	1.5	0.4	0.4	0.4	24.6	29.4	27.1	27.1	10	12	10	10
Soybeans	59.2	59.1	59.4	58.0	58.2	56.4	34.2	37.6	32.0	32.0	1,987	2,188	1,809	1,809
Corn	76.0	79.3	73.3	68.8	72.2	63.0	108.6	131.4	100.7	100.7	7,475	9,482	6,344	6,344
Sorghum	11.1	13.3	10.5	9.9	12.2	9.5	59.3	72.8	59.9	59.9	585	884	568	568
Barley	8.9	7.8	7.8	8.4	7.3	6.8	55.2	62.5	58.9	58.9	464	458	400	400
Oats	8.7	8.0	7.9	4.8	4.5	3.8	50.7	65.6	54.4	54.4	243	295	206	206
							--- Pounds per acre ---				--- Million CWT ---			
Rice	2.9	3.2	2.9	2.8	3.1	2.8	5,674	5,736	5,510	5,510	157.5	179.7	156.1	156.1
											--- Million 480-pound bales ---			
All Cotton	14.1	13.2	13.4	13.0	11.1	12.8	652	699	607	607	17.6	16.2	16.2	16.2

1/ All estimates are from the USDA National Agricultural Statistics Service (NASS) and are published in the Crop Production circular from NASS.

April 1994

Production Estimates &amp; Crop Assessment Division, FAS, USDA



TABLE 2  
World Crop Production Summary

Commodity	World	Total Foreign	North America			Europe		FSU-12	Asia				South America		Selected Other		All Others				
			United States	Canada	Mexico	European Union	Oth. W. Europe		Eastern Europe	China	India	Indo-nesia	Paki-stan	Thai-land	Argen-tina	Brazil		Aus-tralia	South Turkey Africa		
--- Million metric tons ---																					
<u>Wheat</u>	1991/92	542.6	488.7	53.9	31.9	3.7	90.4	4.1	38.5	70.9	96.0	55.1	0.0	14.6	0.0	9.9	3.1	10.6	2.1	16.5	41.3
	1992/93 prel.	561.4	494.5	66.9	29.9	3.2	84.8	3.7	26.4	88.5	101.6	55.7	0.0	15.7	0.0	9.7	2.7	16.2	1.3	15.5	39.6
	1993/94 proj.	562.2	496.8	65.4	27.8	2.8	80.6	4.0	30.5	85.6	105.0	56.8	0.0	16.2	0.0	9.5	2.1	18.0	2.0	16.5	39.5
	Mar.	560.3	494.9	65.4	27.8	3.0	80.3	4.0	30.5	82.8	105.0	56.8	0.0	16.2	0.0	9.5	2.1	18.0	2.0	16.5	40.5
<u>Coarse Grains</u>	1991/92	803.4	584.8	218.6	21.8	17.6	89.7	12.5	64.7	76.2	112.3	26.3	5.4	1.6	3.8	14.5	31.4	8.0	3.4	9.6	86.0
	1992/93 prel.	860.7	582.9	277.9	19.5	19.9	82.3	9.4	41.9	92.6	108.4	37.2	5.7	1.6	3.6	14.2	28.7	8.3	10.3	9.1	90.1
	1993/94 proj.	780.0	592.4	187.5	24.2	18.5	82.7	11.4	43.0	88.2	116.0	33.7	5.7	1.7	3.1	14.1	28.7	9.3	14.3	10.3	87.5
	Mar.	784.3	596.8	187.5	24.2	19.6	82.8	11.4	43.0	89.4	116.0	33.7	5.5	1.7	3.1	14.1	29.7	9.3	14.3	10.3	88.6
<u>Rice (Milled)</u>	1991/92	348.3	343.2	5.0	0.0	0.2	1.5	0.0	0.1	1.3	128.7	73.7	29.0	3.2	13.5	0.4	6.9	0.7	0.0	0.1	84.0
	1992/93 prel.	352.0	346.3	5.7	0.0	0.2	1.4	0.0	0.1	1.2	130.4	72.6	31.4	3.1	13.1	0.4	6.7	0.6	0.0	0.1	85.0
	1993/94 proj.	347.5	342.5	5.0	0.0	0.1	1.3	0.0	0.0	1.3	127.4	74.0	31.3	4.0	12.2	0.3	6.6	0.7	0.0	0.2	83.1
	Mar.	348.0	343.0	5.0	0.0	0.1	1.3	0.0	0.0	1.3	127.4	74.0	31.0	4.0	12.2	0.4	6.9	0.7	0.0	0.2	83.5
<u>Total Grains 1/</u>	1991/92	1,694.3	1,416.7	277.6	53.7	21.5	181.6	16.7	103.2	148.4	336.9	155.1	34.4	19.4	17.2	24.8	41.4	19.3	5.6	26.2	211.3
	1992/93 prel.	1,774.1	1,423.6	350.5	49.4	23.3	168.5	13.1	68.4	182.3	340.3	165.5	37.0	20.4	16.7	24.3	38.1	25.1	11.7	24.8	214.7
	1993/94 proj.	1,689.7	1,405.7	283.9	52.0	21.5	164.7	15.4	73.6	175.2	350.5	163.5	36.4	20.9	16.2	23.9	37.9	28.0	16.2	27.0	182.9
	Mar.	1,692.6	1,434.7	257.9	52.0	22.7	164.4	15.4	73.6	173.5	348.4	164.5	36.5	21.8	15.3	24.0	38.7	28.1	16.2	27.0	212.6
<u>Oilseeds 2/</u>	1991/92	223.5	159.2	64.3	5.8	1.3	13.0	0.7	4.4	11.2	34.2	21.1	4.4	4.8	0.8	15.9	20.7	1.1	0.4	1.7	17.7
	1992/93 prel.	227.0	158.6	68.4	5.2	1.0	12.3	0.7	4.1	10.3	33.0	23.1	4.6	3.5	0.7	14.7	23.2	0.9	0.6	2.0	18.7
	1993/94 proj.	223.7	166.0	57.7	7.3	0.9	10.9	0.7	3.7	10.3	35.5	23.9	4.9	3.0	0.7	16.2	25.4	1.0	0.7	1.9	19.0
	Mar.	223.4	165.7	57.7	7.3	0.9	10.9	0.8	3.7	10.3	35.6	23.5	4.9	3.0	0.7	16.3	25.3	1.0	0.7	1.9	18.9
--- Million 480-pound bales ---																					
<u>Cotton</u>	1991/92	96.0	78.4	17.6	0.0	0.8	1.4	0.0	0.1	11.3	26.1	9.4	0.0	10.0	0.2	1.1	3.4	2.3	0.1	2.6	9.5
	1992/93 prel.	82.8	66.6	16.2	0.0	0.1	1.5	0.0	0.1	9.3	20.7	10.9	0.0	7.1	0.1	0.6	2.1	1.7	0.1	2.6	9.6
	1993/94 proj.	77.7	61.5	16.2	0.0	0.1	1.6	0.0	0.1	9.8	17.3	10.0	0.0	6.0	0.0	1.1	2.1	1.3	0.1	2.4	9.7
	Mar.	76.7	60.6	16.2	0.0	0.1	1.6	0.0	0.1	9.6	17.3	9.6	0.0	6.0	0.0	1.1	2.0	1.3	0.1	2.4	9.4

1/ Includes wheat, coarse grains, and rice (milled) shown above.

2/ Includes soybean, cottonseed, peanut (in-shell), sunflowerseed, rapeseed, copra, and palm kernel.

Note: Entries of 0.0 indicate no reported or insignificant production.



TABLE 3

# Wheat Area, Yield, and Production

## World and Selected Countries and Regions

Country/Region	Area				Yield				Production				Change in Production			
	Prel.				Prel.				Prel.				From last month			
	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	From last month	From last year		
	Million hectares				Metric tons per hectare				Million metric tons				MMT	Percent	MMT	Percent
World	222.37	222.96	222.86	222.26	2.44	2.52	2.52	2.52	542.58	561.39	562.19	560.26	-1.93	-0.34	-1.13	-0.20
United States	23.35	25.26	25.35	25.35	2.31	2.65	2.58	2.58	53.92	66.92	65.37	65.37	0.00	0.00	-1.55	-2.31
Total Foreign	199.02	197.70	197.51	196.91	2.46	2.50	2.52	2.51	488.67	494.47	496.82	494.89	-1.93	-0.39	0.42	0.08
Major Exporters	42.77	44.22	42.34	42.32	3.34	3.18	3.21	3.21	142.81	140.58	135.87	135.64	-0.23	-0.17	-4.94	-3.52
European Union	16.88	16.89	15.44	15.42	5.36	5.02	5.22	5.21	90.42	84.83	80.57	80.34	-0.23	-0.28	-4.49	-5.29
France	5.20	5.12	4.60	4.60	6.65	6.40	6.46	6.44	34.59	32.78	29.70	29.63	-0.07	-0.24	-3.15	-9.60
United Kingdom	1.98	2.06	1.80	1.80	7.27	6.80	7.22	7.22	14.40	14.00	13.00	13.00	0.00	0.00	-1.00	-7.14
Germany	2.45	2.60	2.40	2.40	6.77	5.98	6.57	6.58	16.61	15.54	15.74	15.77	0.03	0.17	0.23	1.45
Canada	14.16	13.83	12.60	12.60	2.26	2.16	2.21	2.21	31.95	29.87	27.80	27.80	0.00	0.00	-2.07	-6.93
Australia	7.18	9.10	9.50	9.50	1.47	1.78	1.89	1.89	10.56	16.18	18.00	18.00	0.00	0.00	1.82	11.22
Argentina	4.55	4.40	4.80	4.80	2.17	2.20	1.98	1.98	9.88	9.70	9.50	9.50	0.00	0.00	-0.20	-2.06
Major Importers	91.52	90.01	89.82	88.71	2.34	2.47	2.52	2.52	214.48	222.03	225.96	223.23	-2.73	-1.21	1.20	0.54
China	30.95	30.50	30.20	30.20	3.10	3.33	3.48	3.48	96.00	101.59	105.00	105.00	0.00	0.00	3.41	3.36
FSU-12	45.56	46.68	45.65	44.49	1.56	1.90	1.88	1.86	70.88	88.46	85.62	82.80	-2.82	-3.29	-5.66	-6.40
Russia	23.15	24.28	24.77	23.52	1.68	1.90	1.84	1.81	38.90	46.17	45.50	42.48	-3.02	-6.64	-3.69	-7.99
Ukraine	7.02	6.33	5.76	5.75	3.01	3.08	3.79	3.80	21.16	19.51	21.83	21.83	0.00	0.00	2.32	11.90
Kazakhstan	13.46	13.88	12.74	12.74	0.51	1.32	1.04	1.04	6.89	18.29	13.20	13.20	0.00	0.00	-5.09	-27.81
Baltic States	0.37	0.46	0.48	0.52	2.99	2.75	2.68	2.62	1.10	1.26	1.28	1.36	0.08	6.51	0.10	8.12
Eastern Europe	9.86	8.15	9.59	9.59	3.90	3.24	3.18	3.18	38.48	26.42	30.50	30.50	0.00	0.00	4.08	15.44
Poland	2.44	2.41	2.50	2.50	3.80	3.06	3.32	3.32	9.27	7.37	8.30	8.30	0.00	0.00	0.93	12.65
Romania	2.18	1.48	2.30	2.30	2.52	2.07	2.30	2.30	5.49	3.05	5.30	5.30	0.00	0.00	2.25	73.88
Egypt	0.76	0.88	0.88	0.89	5.90	5.26	5.51	5.35	4.48	4.62	4.85	4.78	-0.07	-1.44	0.16	3.53
Morocco	2.64	2.23	2.31	2.31	1.87	0.70	0.66	0.66	4.94	1.56	1.52	1.52	0.00	0.00	-0.04	-2.69
Brazil	2.15	2.00	1.60	1.60	1.43	1.37	1.28	1.28	3.08	2.74	2.05	2.05	0.00	0.00	-0.69	-25.16
Other Foreign	64.73	63.47	65.35	65.88	2.03	2.08	2.07	2.06	131.38	131.85	134.99	136.02	1.03	0.76	4.16	3.16
India	24.17	23.26	24.43	24.43	2.28	2.39	2.32	2.32	55.13	55.69	56.76	56.76	0.00	0.00	1.07	1.92
Turkey	8.80	8.80	8.90	8.90	1.88	1.76	1.85	1.85	16.50	15.50	16.50	16.50	0.00	0.00	1.00	6.45
Pakistan	7.91	7.85	8.24	8.30	1.84	2.00	1.97	1.95	14.57	15.68	16.20	16.16	-0.04	-0.27	0.47	3.02
Mexico	0.88	0.76	0.65	0.71	4.20	4.20	4.31	4.20	3.70	3.20	2.80	3.00	0.20	7.14	-0.20	-6.25
Saudi Arabia	0.86	0.91	0.80	0.80	4.55	4.49	4.53	4.53	3.93	4.07	3.60	3.60	0.00	0.00	-0.47	-11.55
Rep. of South Africa	1.43	0.74	1.07	1.07	1.49	1.77	1.84	1.84	2.13	1.32	1.96	1.96	0.00	0.00	0.64	48.71
Others	20.68	21.14	21.27	21.68	1.71	1.72	1.75	1.75	35.42	36.39	37.17	38.04	0.87	2.34	1.65	4.53



TABLE 4

# Total Coarse Grain Area, Yield, and Production

## World and Selected Countries and Regions

Country/Region	Area				Yield				Production				Change in Production			
	Prel.				Prel.				Prel.				From last month			
	1991/92	1992/93	1993/94 Proj.	Mar.	Apr.	1991/92	1992/93	1993/94 Proj.	Mar.	Apr.	1991/92	1992/93	1993/94 Proj.	Mar.	Apr.	From last year
	Million hectares				Metric tons per hectare				Million metric tons				MMT			
World	317.79	318.28	310.94	310.98	2.53	2.70	2.51	2.52	803.42	860.72	779.96	784.31	4.34	0.56	-76.42	-8.88
United States	37.37	39.07	33.77	33.77	5.85	7.11	5.55	5.55	218.63	277.85	187.54	187.54	0.00	0.00	-90.31	-32.50
Total Foreign	280.43	279.22	277.18	277.22	2.09	2.09	2.14	2.15	584.78	582.87	592.42	596.77	4.34	0.73	13.90	2.38
Major Exporters	20.63	20.44	21.89	21.91	2.49	2.74	2.97	2.97	51.42	55.92	65.00	65.02	0.02	0.03	9.10	16.27
Canada	6.59	6.22	6.91	6.91	3.30	3.13	3.50	3.50	21.78	19.49	24.20	24.20	0.00	0.00	4.71	24.14
Argentina	3.80	3.87	3.88	3.90	3.80	3.68	3.64	3.63	14.45	14.25	14.11	14.13	0.02	0.12	-0.12	-0.86
Australia	4.61	4.60	5.24	5.24	1.74	1.80	1.78	1.78	8.00	8.29	9.33	9.33	0.00	0.00	1.04	12.56
South Africa, Rep.	4.14	4.38	4.62	4.62	0.83	2.36	3.09	3.09	3.44	10.34	14.28	14.28	0.00	0.00	3.94	38.12
Thailand	1.49	1.37	1.25	1.25	2.52	2.59	2.46	2.46	3.75	3.55	3.08	3.08	0.00	0.00	-0.47	-13.24
Major Importers	101.02	99.74	98.01	97.88	2.62	2.49	2.52	2.55	264.97	248.82	246.82	249.24	2.42	0.98	0.42	0.17
FSU-12	52.18	51.30	51.65	51.66	1.46	1.81	1.71	1.73	76.20	92.61	88.18	89.39	1.21	1.37	-3.22	-3.47
Russia	33.50	33.36	32.14	32.09	1.38	1.67	1.56	1.59	46.18	55.79	50.20	50.89	0.69	1.37	-4.90	-8.78
Ukraine	5.83	5.81	6.35	6.50	2.58	2.68	2.98	3.02	15.06	15.59	18.93	19.65	0.73	3.83	4.07	26.08
Kazakhstan	8.66	7.93	8.76	8.76	0.50	1.33	0.87	0.87	4.36	10.58	7.59	7.59	0.00	0.00	-2.99	-28.29
Baltic States	1.69	1.76	1.58	1.53	2.50	1.50	1.94	1.98	4.23	2.63	3.06	3.04	-0.02	-0.78	0.41	15.39
European Union	18.92	18.09	16.74	16.75	4.74	4.55	4.94	4.95	89.70	82.28	82.73	82.82	0.09	0.11	0.54	0.65
Germany	4.11	3.92	3.83	3.83	5.52	4.91	5.13	5.16	22.66	19.22	19.66	19.75	0.09	0.45	0.53	2.77
France	3.98	4.16	3.93	3.93	6.48	6.69	6.63	6.65	25.80	27.78	26.02	26.12	0.10	0.38	-1.66	-5.97
Eastern Europe	16.53	16.75	16.39	16.39	3.91	2.50	2.63	2.63	64.69	41.93	43.04	43.04	0.00	0.00	1.12	2.66
Poland	6.28	5.92	6.10	6.10	2.95	2.13	2.49	2.49	18.54	12.59	15.20	15.20	0.00	0.00	2.61	20.69
Romania	3.85	4.31	4.04	4.04	3.58	1.83	2.27	2.27	13.78	7.90	9.15	9.15	0.00	0.00	1.25	15.84
Czechoslovakia	1.17	1.25	1.25	1.25	4.67	3.89	3.58	3.58	5.48	4.84	4.48	4.48	0.00	0.00	-0.37	-7.54
Mexico	8.84	9.14	9.05	8.95	1.99	2.18	2.04	2.19	17.63	19.93	18.45	19.59	1.14	6.18	-0.34	-1.71
Other W. Europe	2.86	2.71	2.61	2.61	4.37	3.49	4.36	4.36	12.52	9.44	11.36	11.36	0.00	0.00	1.92	20.29
Other Foreign	158.77	159.04	157.28	157.43	1.69	1.75	1.78	1.79	268.39	278.13	280.60	282.51	1.91	0.68	4.38	1.57
China	26.94	26.00	25.72	25.72	4.17	4.17	4.51	4.51	112.28	108.36	116.04	116.04	0.00	0.00	7.68	7.09
India	33.77	34.82	35.34	35.34	0.78	1.07	0.95	0.95	26.28	37.23	33.71	33.71	0.00	0.00	-3.52	-9.45
Brazil	14.51	12.78	12.97	12.97	2.17	2.24	2.21	2.29	31.43	28.66	28.70	29.70	1.00	3.48	1.04	3.63
Turkey	4.45	4.48	4.55	4.55	2.17	2.04	2.27	2.27	9.65	9.15	10.34	10.34	0.00	0.00	1.19	13.01
Indonesia	2.90	3.05	3.05	2.95	1.86	1.85	1.85	1.85	5.40	5.65	5.65	5.45	-0.20	-3.54	-0.20	-3.54
Philippines	3.48	3.33	3.10	3.10	1.29	1.43	1.45	1.45	4.49	4.75	4.50	4.50	0.00	0.00	-0.25	-5.28
Others	72.72	74.59	72.56	72.81	1.08	1.13	1.13	1.14	78.87	84.34	81.67	82.78	1.11	1.36	-1.56	-1.85



**TABLE 5**  
**Corn Area, Yield, and Production**  
**World and Selected Countries and Regions**

Country/Region	Area				Yield				Production				Change in Production			
	Prel.				Prel.				Prel.				From last month			
	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	From last month	From last year		
	Million hectares				Metric tons per hectare				Million metric tons				MMT	Percent	MMT	Percent
World	131.07	131.60	127.41	127.58	3.72	4.04	3.62	3.64	487.20	531.03	461.37	464.90	3.53	0.77	-66.12	-12.45
United States	27.86	29.20	25.49	25.49	6.82	8.25	6.32	6.32	189.89	240.85	161.15	161.15	0.00	0.00	-79.70	-33.09
Total Foreign	103.21	102.40	101.92	102.09	2.88	2.83	2.95	2.98	297.32	290.18	300.22	303.76	3.53	1.18	13.58	4.68
Major Exporters	7.20	7.34	7.50	7.50	2.41	3.16	3.59	3.59	17.33	23.20	26.90	26.90	0.00	0.00	3.70	15.95
Argentina	2.40	2.45	2.50	2.50	4.42	4.16	4.20	4.20	10.60	10.20	10.50	10.50	0.00	0.00	0.30	2.94
South Africa	3.45	3.66	3.90	3.90	0.91	2.62	3.46	3.46	3.13	9.60	13.50	13.50	0.00	0.00	3.90	40.62
Thailand	1.35	1.23	1.10	1.10	2.67	2.76	2.64	2.64	3.60	3.40	2.90	2.90	0.00	0.00	-0.50	-14.71
Major Importers	21.50	22.45	21.61	21.82	4.06	3.33	3.43	3.49	87.21	74.73	74.22	76.19	1.98	2.67	1.47	1.96
Eastern Europe	6.66	7.64	6.95	6.95	5.10	2.58	2.73	2.73	33.97	19.73	18.95	18.95	0.00	0.00	-0.78	-3.93
Romania	2.58	3.34	3.00	3.00	4.08	1.80	2.33	2.33	10.50	6.01	7.00	7.00	0.00	0.00	0.99	16.41
Yugoslavia	2.10	2.20	2.00	2.00	5.48	3.02	3.00	3.00	11.50	6.65	6.00	6.00	0.00	0.00	-0.65	-9.77
European Union	3.85	3.72	3.63	3.63	6.94	7.83	7.93	7.96	26.71	29.10	28.77	28.88	0.11	0.40	-0.22	-0.75
France	1.77	1.86	1.86	1.86	7.29	7.98	8.06	8.12	12.93	14.87	15.00	15.10	0.10	0.67	0.23	1.53
Italy	0.86	0.85	0.93	0.93	7.26	8.68	8.48	8.48	6.24	7.41	7.90	7.90	0.00	0.00	0.49	6.57
Mexico	7.70	8.10	8.10	8.00	1.88	2.10	1.98	2.13	14.50	17.00	16.00	17.00	1.00	6.25	0.00	0.00
FSU-12	2.98	2.70	2.64	2.95	3.27	2.62	3.20	3.16	9.76	7.09	8.45	9.32	0.87	10.33	2.23	31.47
Russia	0.73	0.81	0.70	0.81	2.69	2.64	3.14	3.04	1.97	2.14	2.20	2.45	0.25	11.23	0.31	14.61
Ukraine	1.46	1.16	1.10	1.33	3.25	2.46	3.18	3.16	4.75	2.85	3.50	4.20	0.70	20.00	1.35	47.32
Other W. Europe	0.22	0.20	0.20	0.20	8.41	6.63	7.94	7.94	1.81	1.34	1.58	1.58	0.00	0.00	0.24	17.91
Others	0.10	0.10	0.10	0.10	4.67	4.89	4.92	4.83	0.47	0.47	0.47	0.46	-0.01	-1.69	-0.01	-2.11
Other Foreign	74.50	72.61	72.81	72.77	2.59	2.65	2.73	2.76	192.78	192.25	199.11	200.66	1.56	0.78	8.41	4.37
China	21.57	21.04	20.60	20.60	4.58	4.53	4.95	4.95	98.77	95.38	102.00	102.00	0.00	0.00	6.62	6.94
Brazil	14.03	12.35	12.50	12.50	2.20	2.27	2.24	2.32	30.80	28.00	28.00	29.00	1.00	3.57	1.00	3.57
India	5.78	6.02	5.90	5.90	1.38	1.69	1.64	1.64	7.98	10.20	9.70	9.70	0.00	0.00	-0.50	-4.90
Canada	1.11	0.86	0.95	0.95	6.71	5.70	6.63	6.63	7.41	4.88	6.30	6.30	0.00	0.00	1.42	29.02
Indonesia	2.90	3.05	3.05	2.95	1.86	1.85	1.85	1.85	5.40	5.65	5.65	5.45	-0.20	-3.54	-0.20	-3.54
Philippines	3.48	3.33	3.10	3.10	1.29	1.43	1.45	1.45	4.49	4.75	4.50	4.50	0.00	0.00	-0.25	-5.28
Egypt	0.69	0.75	0.77	0.80	6.39	6.00	6.10	6.15	4.43	4.50	4.70	4.94	0.24	5.11	0.44	9.78
Zimbabwe	0.88	1.20	1.40	1.40	0.59	2.00	2.00	2.00	0.52	2.40	2.80	2.80	0.00	0.00	0.40	16.67
Others	24.05	24.01	24.54	24.56	1.37	1.52	1.44	1.46	32.98	36.49	35.46	35.97	0.52	1.45	-0.52	-1.42



**TABLE 6**  
**Barley Area, Yield, and Production**  
**World and Selected Countries and Regions**

Country/Region	Area				Yield				Production				Change in Production			
	Prel.				Prel.				Prel.				From last month			
	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	MMT	Percent	MMT	Percent
	Million hectares				Metric tons per hectare				Million metric tons							
World	75.99	72.63	73.87	73.54	2.22	2.27	2.25	2.28	169.08	165.17	166.00	167.66	1.66	1.00	2.49	1.51
United States	3.41	2.96	2.75	2.75	2.97	3.36	3.17	3.17	10.11	9.97	8.71	8.71	0.00	0.00	-1.26	-12.60
Total Foreign	72.59	69.66	71.12	70.80	2.19	2.23	2.21	2.25	158.97	155.20	157.28	158.95	1.66	1.06	3.75	2.41
European Union	12.03	11.43	10.14	10.14	4.28	3.78	4.22	4.21	51.53	43.21	42.85	42.72	-0.13	-0.31	-0.49	-1.13
Denmark	0.94	0.89	0.72	0.72	5.34	3.33	4.72	4.72	5.04	2.97	3.40	3.40	0.00	0.00	0.43	14.32
France	1.74	1.80	1.60	1.60	6.19	5.88	5.55	5.55	10.79	10.58	8.88	8.88	0.00	0.00	-1.70	-16.07
Germany	2.54	2.41	2.20	2.20	5.72	5.06	5.00	5.00	14.49	12.20	11.00	11.00	0.00	0.00	-1.20	-9.81
Italy	0.47	0.45	0.44	0.44	3.80	3.87	3.44	3.44	1.79	1.74	1.50	1.50	0.00	0.00	-0.24	-13.84
Spain	4.37	4.01	3.50	3.50	2.09	1.49	2.72	2.72	9.14	5.99	9.53	9.53	0.00	0.00	3.54	58.99
United Kingdom	1.39	1.31	1.18	1.18	5.54	5.61	5.30	5.30	7.70	7.35	6.25	6.25	0.00	0.00	-1.10	-14.97
FSU-12	27.44	25.96	28.87	28.62	1.40	1.95	1.68	1.75	38.43	50.70	48.60	49.97	1.37	2.83	-0.72	-1.43
Russia	15.28	14.56	15.46	15.45	1.45	1.85	1.60	1.72	22.17	26.99	24.70	26.63	1.93	7.81	-0.36	-1.34
Ukraine	3.19	3.45	4.05	3.97	2.52	2.93	3.10	3.18	8.05	10.11	12.58	12.60	0.03	0.20	2.49	24.68
Kazakhstan	6.61	5.72	6.97	6.97	0.47	1.49	0.79	0.79	3.09	8.51	5.49	5.49	0.00	0.00	-3.03	-35.55
Baltic States	1.21	1.23	0.99	0.95	2.56	1.37	2.03	2.02	3.09	1.69	2.00	1.91	-0.09	-4.46	0.22	13.05
Eastern Europe	4.05	3.67	3.66	3.66	3.67	3.02	2.92	2.92	14.83	11.11	10.68	10.68	0.00	0.00	-0.43	-3.87
Poland	1.24	1.20	1.20	1.20	3.44	2.35	2.75	2.75	4.26	2.82	3.30	3.30	0.00	0.00	0.48	17.06
Czechoslovakia	0.79	0.89	0.88	0.88	4.79	4.00	3.62	3.62	3.79	3.55	3.20	3.20	0.00	0.00	-0.35	-9.86
Romania	1.02	0.63	0.64	0.64	2.89	2.14	2.42	2.42	2.95	1.35	1.55	1.55	0.00	0.00	0.20	15.07
Canada	4.22	3.79	4.20	4.20	2.75	2.88	3.17	3.17	11.62	10.92	13.30	13.30	0.00	0.00	2.38	21.81
Other W. Europe	1.54	1.42	1.35	1.35	4.19	3.47	4.05	4.05	6.43	4.92	5.47	5.47	0.00	0.00	0.54	11.01
Sweden	0.46	0.43	0.39	0.39	4.21	2.92	4.49	4.49	1.94	1.26	1.75	1.75	0.00	0.00	0.49	38.78
Turkey	3.40	3.43	3.50	3.50	2.00	1.84	2.06	2.06	6.80	6.30	7.20	7.20	0.00	0.00	0.90	14.29
Australia	2.74	2.90	3.50	3.50	1.65	1.92	1.90	1.90	4.53	5.56	6.65	6.65	0.00	0.00	1.09	19.65
China	1.20	1.25	1.23	1.23	3.27	3.20	3.43	3.43	3.93	4.00	4.20	4.20	0.00	0.00	0.20	5.00
Morocco	2.36	2.23	1.50	1.50	1.38	0.48	0.68	0.68	3.25	1.08	1.02	1.02	0.00	0.00	-0.06	-5.64
India	0.96	0.95	0.90	0.90	1.70	1.79	1.68	1.68	1.63	1.70	1.51	1.51	0.00	0.00	-0.19	-11.18
Others	11.45	11.40	11.28	11.25	1.13	1.23	1.22	1.27	12.90	14.02	13.82	14.33	0.51	3.69	0.31	2.17



TABLE 7

# Oats Area, Yield, and Production

## World and Selected Countries and Regions

Country/Region	Area				Yield				Production				Change in Production			
	Prel.		1993/94 Proj.		Prel.		1993/94 Proj.		Prel.		1993/94 Proj.		From last month		From last year	
	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	MMT	Percent	MMT	Percent
	Million hectares				Metric tons per hectare				Million metric tons							
World	20.08	19.58	19.48	19.39	1.63	1.72	1.75	1.81	32.78	33.59	34.16	35.10	0.93	2.73	1.51	4.48
United States	1.95	1.82	1.54	1.54	1.82	2.35	1.95	1.95	3.53	4.28	2.99	2.99	0.00	0.00	-1.28	-30.01
Total Foreign	18.14	17.76	17.94	17.85	1.61	1.65	1.74	1.80	29.25	29.31	31.17	32.10	0.93	2.99	2.79	9.51
FSU-12	10.43	9.85	9.84	9.78	1.18	1.42	1.35	1.46	12.34	13.97	13.32	14.31	0.99	7.42	0.34	2.40
Russia	9.03	8.54	8.42	8.39	1.15	1.32	1.25	1.38	10.37	11.24	10.50	11.54	1.04	9.90	0.30	2.65
Ukraine	0.50	0.50	0.50	0.51	1.90	2.52	2.60	2.56	0.95	1.25	1.30	1.30	0.00	0.00	0.05	4.33
Belarus	0.36	0.33	0.36	0.33	2.11	2.17	2.22	2.28	0.76	0.72	0.80	0.75	-0.05	-6.25	0.03	3.88
Baltic States	0.22	0.17	0.20	0.17	2.39	0.90	1.88	1.81	0.52	0.16	0.38	0.30	-0.08	-20.27	0.14	92.90
Maj. Foreign Exporters	2.70	3.07	3.06	3.06	1.97	1.96	2.30	2.30	5.31	6.03	7.05	7.05	0.00	0.00	1.02	16.93
Canada	0.84	1.24	1.35	1.35	2.13	2.28	2.67	2.67	1.79	2.82	3.60	3.60	0.00	0.00	0.78	27.52
Sweden	0.35	0.34	0.30	0.30	4.13	2.36	4.50	4.50	1.43	0.81	1.35	1.35	0.00	0.00	0.54	67.29
Australia	1.16	1.14	1.06	1.06	1.46	1.71	1.56	1.56	1.69	1.95	1.65	1.65	0.00	0.00	-0.30	-15.34
Argentina	0.35	0.35	0.35	0.35	1.14	1.29	1.29	1.29	0.40	0.45	0.45	0.45	0.00	0.00	0.00	0.00
Other Foreign	4.80	4.67	4.84	4.84	2.31	1.96	2.15	2.16	11.08	9.15	10.42	10.44	0.02	0.19	1.29	14.07
China	0.55	0.54	0.54	0.54	1.18	1.19	1.19	1.19	0.65	0.64	0.64	0.64	0.00	0.00	0.00	0.00
European Union	1.32	1.24	1.28	1.29	3.33	2.88	3.21	3.22	4.38	3.58	4.12	4.14	0.02	0.49	0.57	15.83
France	0.18	0.17	0.17	0.17	4.23	4.24	4.19	4.19	0.74	0.70	0.70	0.70	0.00	0.00	0.00	0.00
Germany	0.38	0.36	0.36	0.36	4.91	3.67	4.72	4.72	1.87	1.31	1.70	1.70	0.00	0.00	0.39	29.38
Italy	0.15	0.15	0.14	0.14	2.46	2.28	2.57	2.57	0.36	0.33	0.36	0.36	0.00	0.00	0.03	8.11
United Kingdom	0.10	0.11	0.10	0.10	5.24	5.00	5.00	5.00	0.55	0.53	0.50	0.50	0.00	0.00	-0.02	-4.76
Eastern Europe	1.20	1.20	1.37	1.37	2.43	1.86	1.98	1.98	2.92	2.22	2.71	2.71	0.00	0.00	0.48	21.74
Czechoslovakia	0.09	0.09	0.09	0.09	3.89	3.00	3.24	3.24	0.35	0.26	0.28	0.28	0.00	0.00	0.02	7.84
Poland	0.69	0.67	0.70	0.70	2.73	1.84	2.14	2.14	1.87	1.23	1.50	1.50	0.00	0.00	0.27	22.05
Yugoslavia	0.13	0.05	0.13	0.13	1.92	1.80	1.77	1.77	0.25	0.09	0.23	0.23	0.00	0.00	0.14	155.56
Finland	0.34	0.34	0.33	0.33	3.37	3.16	3.64	3.64	1.16	1.06	1.20	1.20	0.00	0.00	0.14	13.42
Norway	0.13	0.13	0.12	0.12	4.20	2.39	3.75	3.75	0.54	0.32	0.45	0.45	0.00	0.00	0.13	41.51
Turkey	0.15	0.15	0.15	0.15	1.87	1.87	1.93	1.93	0.28	0.28	0.28	0.28	0.00	0.00	0.00	0.00
Others	1.11	1.07	1.06	1.06	1.04	0.99	0.97	0.97	1.16	1.06	1.03	1.03	-0.00	-0.00	-0.04	-3.30



**TABLE 8**  
**Rye Area, Yield, and Production**  
**World and Selected Countries and Regions**

Country/Region	Area				Yield				Production				Change in Production			
	Prel.				Prel.				Prel.				From last month			
	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	From last month	From last year	From last year	From last year
	Million hectares				Metric tons per hectare				Million metric tons				MMT	Percent	MMT	Percent
World	13.14	14.10	12.67	12.76	2.08	2.03	2.12	2.02	27.36	28.67	26.93	25.82	-1.11	-4.11	-2.84	-9.92
United States	0.16	0.16	0.15	0.15	1.55	1.85	1.71	1.71	0.25	0.30	0.26	0.26	0.00	0.00	-0.04	-13.49
Total Foreign	12.98	13.94	12.52	12.60	2.09	2.04	2.13	2.03	27.11	28.36	26.67	25.56	-1.11	-4.15	-2.80	-9.89
FSU-12	8.30	9.71	8.01	8.05	1.69	1.92	1.91	1.73	14.06	18.64	15.26	13.92	-1.35	-8.84	-4.73	-25.35
Russia	6.46	7.57	6.07	5.99	1.64	1.83	1.81	1.53	10.62	13.89	11.00	9.15	-1.85	-16.81	-4.74	-34.10
Ukraine	0.49	0.50	0.50	0.50	2.00	2.32	2.40	2.41	0.98	1.16	1.20	1.20	0.00	0.00	0.04	3.81
Belarus	0.78	1.00	0.90	1.02	2.51	3.06	2.78	2.93	1.96	3.06	2.50	3.00	0.50	20.00	-0.06	-1.96
Baltic States	0.27	0.35	0.39	0.42	2.32	2.23	1.77	1.98	0.62	0.79	0.69	0.83	0.14	20.43	0.04	5.19
Major Exporter																
Canada	0.18	0.14	0.16	0.16	1.87	1.92	1.88	1.88	0.34	0.27	0.30	0.30	0.00	0.00	0.04	13.21
Other Foreign	4.23	3.74	3.96	3.98	2.86	2.32	2.63	2.64	12.09	8.67	10.41	10.51	0.10	0.97	1.85	21.30
Eastern Europe	2.62	2.27	2.46	2.46	2.60	1.98	2.26	2.26	6.80	4.51	5.56	5.56	0.00	0.00	1.05	23.25
Hungary	0.09	0.07	0.07	0.07	2.38	2.00	1.57	1.57	0.22	0.14	0.11	0.11	0.00	0.00	-0.03	-21.43
Poland	2.29	2.03	2.20	2.20	2.58	1.96	2.27	2.27	5.90	3.98	5.00	5.00	0.00	0.00	1.02	25.60
Czechoslovakia	0.13	0.09	0.10	0.10	3.81	2.90	3.00	3.00	0.48	0.26	0.30	0.30	0.00	0.00	0.05	17.65
European Union	1.18	1.06	1.07	1.07	3.74	3.19	3.67	3.75	4.40	3.38	3.92	4.01	0.08	2.14	0.63	18.65
Denmark	0.08	0.09	0.08	0.08	4.94	3.50	4.25	4.25	0.40	0.31	0.34	0.34	0.00	0.00	0.03	10.39
France	0.06	0.05	0.05	0.05	3.50	3.94	3.80	3.80	0.21	0.21	0.19	0.19	0.00	0.00	-0.02	-7.32
Germany	0.71	0.62	0.66	0.66	4.68	3.94	4.39	4.52	3.32	2.42	2.90	2.98	0.08	2.90	0.56	23.20
Spain	0.20	0.19	0.17	0.17	1.23	1.24	1.75	1.75	0.24	0.23	0.30	0.30	0.00	0.00	0.07	30.43
Other W. Europe	0.14	0.12	0.15	0.15	4.00	3.91	4.22	4.22	0.57	0.47	0.62	0.62	0.00	0.00	0.15	33.33
Austria	0.09	0.07	0.07	0.07	4.12	4.03	4.14	4.14	0.35	0.28	0.29	0.29	0.00	0.00	0.01	4.32
Sweden	0.04	0.03	0.05	0.05	3.93	4.12	4.80	4.80	0.17	0.14	0.24	0.24	0.00	0.00	0.10	76.47
Turkey	0.17	0.17	0.17	0.17	1.41	1.41	1.39	1.39	0.24	0.24	0.23	0.23	0.00	0.00	-0.01	-4.17
Others	0.13	0.12	0.12	0.14	0.67	0.65	0.70	0.74	0.08	0.08	0.08	0.10	0.02	20.24	0.02	29.49



**TABLE 9**  
**Sorghum Area, Yield, and Production**  
**World and Selected Countries and Regions**

Country/Region	Area				Yield				Production				Change in Production			
	1991/92		1992/93		1991/92		1992/93		1991/92		1992/93		From last month		From last year	
	Prel.	1993/94 Proj.	Prel.	1993/94 Proj.	Prel.	1993/94 Proj.	Prel.	1993/94 Proj.	Prel.	1993/94 Proj.	Prel.	1993/94 Proj.	MMT	Percent	MMT	Percent
	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.				
	Million hectares				Metric tons per hectare				Million metric tons							
World	38.01	40.15	38.54	38.25	1.36	1.61	1.42	1.42	51.60	64.71	54.63	54.19	-0.45	-0.82	-10.53	-16.27
United States	3.99	4.92	3.84	3.84	3.72	4.57	3.76	3.76	14.86	22.46	14.42	14.42	0.00	0.00	-8.03	-35.76
Total Foreign	34.01	35.23	34.70	34.42	1.08	1.20	1.16	1.16	36.74	42.26	40.21	39.76	-0.45	-1.11	-2.49	-5.90
India	12.59	13.11	13.30	13.30	0.67	0.99	0.94	0.94	8.40	12.96	12.50	12.50	0.00	0.00	-0.46	-3.55
China	1.39	1.30	1.34	1.34	3.55	3.65	3.73	3.73	4.93	4.74	5.00	5.00	0.00	0.00	0.26	5.49
Mexico	0.82	0.70	0.60	0.60	3.17	3.40	3.17	3.40	2.60	2.38	1.90	2.04	0.14	7.37	-0.34	-14.29
Nigeria	4.40	4.80	4.60	4.60	0.80	0.79	0.80	0.80	3.50	3.80	3.70	3.70	0.00	0.00	-0.10	-2.63
Sudan	4.20	4.50	4.35	3.80	0.80	0.90	0.80	0.70	3.36	4.05	3.50	2.65	-0.85	-24.29	-1.40	-34.57
Argentina	0.72	0.75	0.70	0.70	3.84	4.00	3.57	3.57	2.77	3.00	2.50	2.50	0.00	0.00	-0.50	-16.67
Australia	0.57	0.43	0.55	0.55	2.54	1.09	1.36	1.36	1.44	0.47	0.75	0.75	0.00	0.00	0.28	58.90
Ethiopia	0.95	0.93	0.93	0.93	1.05	1.41	1.20	1.30	1.00	1.30	1.11	1.20	0.09	8.11	-0.10	-7.69
Colombia	0.24	0.25	0.26	0.27	3.00	3.00	3.00	2.96	0.72	0.75	0.77	0.80	0.04	4.58	0.05	6.67
Venezuela	0.27	0.24	0.13	0.13	2.18	2.20	1.88	1.88	0.58	0.53	0.25	0.25	0.00	0.00	-0.28	-52.65
Egypt	0.13	0.13	0.13	0.14	4.70	4.73	4.77	5.29	0.62	0.62	0.62	0.74	0.12	19.35	0.13	20.33
Yemen	0.61	0.61	0.61	0.50	1.00	1.00	1.00	1.00	0.61	0.61	0.61	0.50	-0.11	-18.17	-0.11	-18.17
Tanzania	0.55	0.65	0.68	0.68	0.95	0.92	0.96	0.74	0.53	0.60	0.65	0.50	-0.15	-23.08	-0.10	-16.67
Niger	1.40	1.50	1.30	1.50	0.39	0.27	0.35	0.23	0.55	0.40	0.45	0.35	-0.10	-22.22	-0.05	-12.50
Rep. of South Africa	0.14	0.17	0.17	0.17	0.73	2.52	2.89	2.89	0.10	0.43	0.50	0.50	0.00	0.00	0.07	16.82
Thailand	0.14	0.14	0.15	0.15	1.07	1.07	1.20	1.20	0.15	0.15	0.18	0.18	0.00	0.00	0.03	20.00
Others	21.28	21.98	21.25	20.97	1.32	1.33	1.30	1.29	28.19	29.15	27.53	27.08	-0.45	-1.63	-2.06	-7.08

**TABLE 10**  
**Rice Area, Yield, and Production**  
**World and Selected Countries and Regions**

Country/Region	Area				Yield (Rough)				Production (Milled)				Change in Production			
	Prel.				Prel.				Prel.				From last month			
	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	From last month	From last year		
	Million hectares				Metric tons per hectare				Million metric tons				MMT	Percent	MMT	Percent
World	145.74	145.21	143.86	142.79	3.53	3.59	3.58	3.61	348.28	352.00	347.50	347.99	0.49	0.14	-4.01	-1.14
United States	1.12	1.27	1.15	1.15	6.36	6.43	6.18	6.18	5.04	5.70	4.96	4.96	0.00	0.00	-0.75	-13.10
Total Foreign	144.62	143.95	142.71	141.64	3.51	3.56	3.56	3.59	343.24	346.30	342.54	343.04	0.49	0.14	-3.26	-0.94
Major Exporters	15.67	16.01	17.07	16.35	2.43	2.37	2.29	2.42	24.13	24.03	24.65	24.90	0.25	1.01	0.87	3.61
Thailand	9.05	9.18	9.60	8.70	2.25	2.17	1.93	2.12	13.46	13.15	12.20	12.20	0.00	0.00	-0.95	-7.19
Burma	4.52	4.86	5.26	5.44	2.83	2.76	2.79	2.77	7.42	7.77	8.50	8.75	0.25	2.94	0.98	12.58
Pakistan	2.10	1.97	2.21	2.21	2.32	2.37	2.71	2.69	3.24	3.12	3.95	3.95	0.00	0.00	0.83	26.77
Major Importers	13.70	14.58	14.74	14.29	4.19	4.17	4.06	4.17	38.36	40.61	39.92	39.79	-0.13	-0.32	-0.81	-2.00
Indonesia	10.28	11.10	11.25	10.80	4.35	4.34	4.28	4.42	29.04	31.35	31.33	31.01	-0.33	-1.04	-0.35	-1.10
Rep. of Korea	1.21	1.16	1.14	1.14	6.14	6.27	5.63	5.73	5.39	5.33	4.70	4.75	0.05	1.06	-0.58	-10.90
European Union	0.37	0.36	0.34	0.34	6.20	6.01	5.76	5.74	1.49	1.39	1.28	1.28	-0.00	-0.31	-0.11	-8.18
Iran	0.58	0.65	0.65	0.65	3.79	3.46	3.46	3.81	1.45	1.50	1.50	1.65	0.15	10.00	0.15	10.00
Nigeria	0.60	0.66	0.68	0.68	1.33	1.37	1.42	1.42	0.48	0.54	0.58	0.58	0.00	0.00	0.04	7.41
Other Foreign	114.57	112.71	110.22	110.32	3.60	3.67	3.71	3.71	279.95	280.89	277.15	277.52	0.37	0.13	-3.37	-1.20
China	32.59	32.09	30.20	30.20	5.64	5.80	6.03	6.03	128.67	130.35	127.40	127.40	0.00	0.00	-2.95	-2.27
India	42.31	41.40	41.20	41.20	2.61	2.63	2.69	2.69	73.66	72.61	74.00	74.00	0.00	0.00	1.39	1.91
Bangladesh	10.24	10.16	10.00	10.00	2.67	2.71	2.70	2.70	18.25	18.34	18.00	18.00	0.00	0.00	-0.34	-1.85
Vietnam	6.52	6.53	6.40	6.40	3.36	3.30	3.41	3.41	14.48	14.21	14.39	14.39	0.00	0.00	0.18	1.25
Japan	2.05	2.11	2.14	2.14	5.86	6.28	4.58	4.62	8.74	9.62	7.13	7.20	0.07	1.00	-2.42	-25.16
Brazil	4.61	4.38	4.20	4.30	2.19	2.26	2.31	2.37	6.87	6.73	6.60	6.94	0.34	5.15	0.21	3.07
Philippines	3.29	3.24	3.20	3.20	2.78	2.94	2.88	2.88	5.94	6.18	6.00	6.00	0.00	0.00	-0.18	-2.96
Taiwan	0.43	0.40	0.40	0.40	5.36	5.19	5.50	5.50	1.67	1.50	1.64	1.64	0.00	0.00	0.14	9.48
FSU-12	0.60	0.62	0.62	0.62	3.33	3.06	3.24	3.24	1.30	1.23	1.31	1.31	0.00	0.00	0.08	6.78
Russia	0.27	0.27	0.26	0.26	2.89	2.85	2.96	2.96	0.50	0.49	0.50	0.50	0.00	0.00	0.01	1.83
Australia	0.13	0.13	0.14	0.14	8.81	7.65	8.85	8.85	0.70	0.59	0.74	0.74	0.00	0.00	0.15	25.00
Others	11.81	11.67	11.73	11.72	2.77	2.78	2.83	2.86	19.69	19.52	19.94	19.90	-0.04	-0.20	0.38	1.93



TABLE 11

# Total Oilseed Area, Yield, and Production

## World and Selected Countries and Regions

Country/Region	Area				Yield				Production				Change in Production			
	Prel.		1993/94 Proj.		Prel.		1993/94 Proj.		Prel.		1993/94 Proj.		From last month		From last year	
	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	MMT	Percent	MMT	Percent
World Total 1/ Total Foreign 1/ Copra Palm Kernel	Million hectares				Metric tons per hectare				Million metric tons				MMT	Percent	MMT	Percent
	--	--	--	--	--	--	--	--	223.49	227.01	223.74	223.45	-0.29	-0.13	-3.57	-1.57
	--	--	--	--	--	--	--	--	159.17	158.61	166.02	165.70	-0.32	-0.19	7.10	4.47
	--	--	--	--	--	--	--	--	4.73	4.73	4.66	4.66	0.00	0.00	-0.07	-1.52
Major Oilseeds 2/ United States 2/	--	--	--	--	--	--	--	--	3.41	4.00	4.36	4.36	0.00	0.00	0.37	9.19
	147.05	145.72	149.58	149.42	1.46	1.50	1.44	1.44	215.35	218.29	214.72	214.43	-0.29	-0.13	-3.86	-1.77
	30.69	29.63	29.77	29.79	2.10	2.31	1.94	1.94	64.32	68.41	57.71	57.74	0.03	0.05	-10.66	-15.59
Foreign Oilseeds 2/ China Brazil India Argentina FSU—12 Russia Ukraine Uzbekistan Turkmenistan Canada European Union France Italy Germany Spain United Kingdom Indonesia Pakistan Eastern Europe Poland Romania Hungary Turkey Philippines Paraguay Mexico Others	116.36	116.09	119.81	119.63	1.30	1.29	1.31	1.31	151.03	149.88	157.00	156.68	-0.32	-0.20	6.80	4.54
	23.32	23.82	24.10	24.10	1.47	1.39	1.47	1.48	34.21	33.04	35.45	35.60	0.15	0.42	2.56	7.75
	11.75	11.91	12.78	12.78	1.76	1.95	1.98	1.98	20.66	23.18	25.35	25.28	-0.07	-0.26	2.10	9.05
	28.22	27.90	29.17	29.07	0.73	0.81	0.80	0.79	20.64	22.68	23.44	23.05	-0.39	-1.68	0.36	1.60
	8.37	7.64	8.22	8.12	1.90	1.92	1.97	2.01	15.86	14.65	16.22	16.29	0.08	0.47	1.64	11.22
	8.74	9.02	8.92	8.89	1.28	1.14	1.15	1.15	11.21	10.32	10.29	10.25	-0.04	-0.38	-0.07	-0.69
	3.51	3.73	3.68	3.68	1.06	1.00	0.95	0.95	3.72	3.74	3.48	3.48	0.00	0.00	-0.26	-7.00
	1.77	1.79	1.78	1.78	1.51	1.35	1.33	1.33	2.66	2.42	2.38	2.38	0.00	0.00	-0.05	-1.98
	1.72	1.67	1.63	1.63	1.56	1.42	1.53	1.52	2.68	2.38	2.51	2.49	-0.02	-0.80	0.11	4.63
	0.60	0.57	0.56	0.56	1.29	1.25	1.32	1.32	0.78	0.71	0.74	0.74	0.00	0.14	0.03	4.37
	3.82	3.54	4.86	4.86	1.52	1.47	1.51	1.51	5.82	5.20	7.33	7.33	0.00	0.00	2.13	41.07
	5.68	5.73	5.71	5.71	2.29	2.14	1.91	1.91	13.00	12.27	10.92	10.89	-0.03	-0.27	-1.38	-11.26
	1.87	1.71	1.45	1.44	2.66	2.33	2.36	2.35	4.99	3.99	3.41	3.38	-0.03	-0.76	-0.61	-15.20
	0.56	0.50	0.29	0.29	3.00	3.30	3.14	3.14	1.68	1.64	0.92	0.92	0.00	0.00	-0.73	-44.28
	1.05	1.07	1.11	1.10	2.62	2.78	2.81	2.82	2.74	2.99	3.11	3.11	-0.00	-0.13	0.12	3.95
	1.17	1.47	1.83	1.83	0.91	1.03	0.74	0.74	1.06	1.51	1.35	1.35	0.00	0.00	-0.16	-10.66
	0.44	0.42	0.41	0.41	2.96	2.73	2.59	2.59	1.30	1.15	1.06	1.06	0.00	0.00	-0.09	-7.83
	1.99	2.08	2.19	2.19	1.23	1.23	1.20	1.20	2.46	2.55	2.63	2.63	0.00	0.00	0.08	2.94
	3.30	3.31	3.19	3.18	1.44	1.05	0.95	0.95	4.77	3.49	3.04	3.04	0.00	0.00	-0.45	-12.87
	2.32	2.69	2.33	2.33	1.91	1.53	1.58	1.58	4.43	4.11	3.68	3.68	0.00	0.00	-0.43	-10.46
	0.47	0.42	0.35	0.35	2.23	1.81	2.00	2.00	1.04	0.76	0.69	0.69	0.00	0.00	-0.07	-8.97
	0.59	0.78	0.67	0.67	1.35	1.15	1.18	1.18	0.80	0.90	0.79	0.79	0.00	0.00	-0.11	-12.43
	0.48	0.48	0.42	0.42	2.01	1.74	1.76	1.76	0.96	0.84	0.73	0.73	0.00	0.00	-0.11	-13.08
	1.23	1.41	1.33	1.33	1.37	1.43	1.46	1.46	1.69	2.02	1.94	1.94	0.00	0.00	-0.08	-4.01
	0.09	0.10	0.10	0.10	0.79	0.78	0.79	0.79	0.07	0.08	0.08	0.08	0.00	0.00	0.00	6.58
	1.42	1.29	1.51	1.51	1.12	1.57	1.45	1.43	1.60	2.03	2.19	2.17	-0.03	-1.23	0.14	6.85
	0.68	0.45	0.40	0.40	1.66	1.72	1.71	1.71	1.13	0.77	0.69	0.69	0.00	0.00	-0.08	-10.77
	15.44	15.22	15.01	15.05	0.87	0.89	0.92	0.91	13.51	13.49	13.76	13.77	0.01	0.08	0.28	2.06

1/ Major oilseeds plus copra and palm kernel. 2/ Individual countries and regions include soybean, cottonseed, peanut (inshell), sunflowerseed, and rapeseed.

**TABLE 12**  
**Soybean Area, Yield, and Production**  
**World and Selected Countries and Regions**

Country/Region	Area				Yield				Production				Change in Production			
	Prel.				Prel.				Prel.				From last month			
	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	MMT	Percent	MMT	Percent
	Million hectares				Metric tons per hectare				Million metric tons				MMT	Percent	MMT	Percent
World	54.79	56.56	60.17	60.09	1.96	2.06	1.89	1.89	107.13	116.70	113.61	113.41	-0.20	-0.17	-3.29	-2.82
United States	23.48	23.55	22.84	22.84	2.30	2.53	2.15	2.15	54.07	59.55	49.22	49.22	0.00	0.00	-10.32	-17.34
Total Foreign	31.32	33.02	37.32	37.25	1.69	1.73	1.73	1.72	53.06	57.16	64.39	64.19	-0.20	-0.31	7.03	12.30
Major Exporters	15.40	16.48	18.00	18.00	3.27	2.13	2.13	2.13	31.75	35.05	38.40	38.40	0.00	0.00	3.35	9.56
Brazil	9.70	10.60	11.55	11.55	1.99	2.10	2.11	2.11	19.30	22.30	24.40	24.40	0.00	0.00	2.10	9.42
Argentina	4.80	4.90	5.40	5.40	2.32	2.24	2.26	2.26	11.15	11.00	12.20	12.20	0.00	0.00	1.20	10.91
Paraguay	0.90	0.98	1.05	1.05	1.44	1.79	1.71	1.71	1.30	1.75	1.80	1.80	0.00	0.00	0.05	2.86
Other Foreign	15.92	16.54	19.32	19.25	1.34	1.34	1.34	1.34	21.31	22.11	25.99	25.79	-0.20	-0.76	3.68	16.65
China	7.05	7.22	9.29	9.29	1.38	1.43	1.40	1.40	9.71	10.30	13.00	13.00	0.00	0.00	2.70	26.21
Canada	0.60	0.56	0.72	0.72	2.44	2.48	2.57	2.57	1.46	1.39	1.85	1.85	0.00	0.00	0.46	33.38
Eastern Europe	0.22	0.30	0.20	0.20	1.97	1.06	1.26	1.26	0.43	0.32	0.26	0.26	0.00	0.00	-0.06	-19.12
European Union	0.49	0.43	0.23	0.23	3.09	3.39	3.42	3.51	1.50	1.47	0.78	0.80	0.02	2.55	-0.66	-45.23
India	3.19	3.63	4.40	4.30	0.78	0.86	1.02	0.99	2.49	3.11	4.50	4.25	-0.25	-5.56	1.14	36.83
Indonesia	1.33	1.40	1.50	1.50	1.13	1.13	1.09	1.09	1.50	1.58	1.63	1.63	0.00	0.00	0.05	3.49
FSU-12	0.81	0.79	0.75	0.75	1.00	0.81	0.94	0.94	0.81	0.63	0.70	0.70	0.00	0.00	0.07	10.41
Russia	0.66	0.65	0.62	0.62	0.94	0.78	0.89	0.89	0.62	0.51	0.55	0.55	0.00	0.00	0.05	8.91
Ukraine	0.10	0.10	0.08	0.08	1.32	0.78	1.25	1.25	0.14	0.08	0.10	0.10	0.00	0.00	0.02	31.58
Mexico	0.34	0.31	0.28	0.28	2.11	1.85	1.85	1.85	0.72	0.58	0.52	0.52	0.00	0.00	-0.06	-10.55
Thailand	0.32	0.34	0.35	0.35	1.37	1.28	1.16	1.16	0.44	0.44	0.40	0.40	0.00	0.00	-0.03	-8.05
Korea, DPR	0.34	0.34	0.34	0.34	1.29	1.18	1.18	1.18	0.44	0.40	0.40	0.40	0.00	0.00	0.00	0.00
Japan	0.14	0.11	0.09	0.09	1.40	1.71	1.16	1.16	0.20	0.19	0.10	0.10	0.00	0.00	-0.09	-46.28
Bolivia	0.21	0.24	0.27	0.27	1.81	1.96	1.93	1.93	0.38	0.47	0.52	0.52	0.00	0.00	0.05	10.64
Rep. of Korea	0.12	0.11	0.10	0.12	1.54	1.68	1.60	1.45	0.18	0.18	0.16	0.17	0.01	6.25	-0.01	-3.41
Colombia	0.04	0.04	0.04	0.04	1.76	1.88	1.88	1.88	0.07	0.08	0.08	0.08	0.00	0.00	0.00	0.00
Others	0.73	0.72	0.77	0.78	1.35	1.39	1.42	1.43	0.99	1.00	1.09	1.12	0.02	2.10	0.12	11.70



**TABLE 13**  
**Cottonseed Area, Yield, and Production**  
**World and Selected Countries and Regions**

Country/Region	Area				Yield				Production				Change in Production			
	Prel.		1993/94 Proj.		Prel.		1993/94 Proj.		Prel.		1993/94 Proj.		From last month		From last year	
	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	MMT	Percent	MMT	Percent
	Million hectares				Metric tons per hectare				Million metric tons				MMT	Percent	MMT	Percent
World	34.76	32.52	31.50	31.47	1.05	0.97	0.94	0.93	36.60	31.55	29.72	29.35	-0.38	-1.27	-2.20	-6.98
United States	5.25	4.51	5.18	5.18	1.20	1.25	1.10	1.10	6.28	5.65	5.69	5.69	0.00	0.00	0.04	0.65
Total Foreign	29.51	28.01	26.32	26.30	1.03	0.92	0.91	0.90	30.32	25.89	24.03	23.66	-0.38	-1.57	-2.24	-8.64
China	6.54	6.84	5.46	5.46	1.48	1.12	1.17	1.17	9.66	7.66	6.40	6.40	0.00	0.00	-1.26	-16.45
FSU-12	3.01	2.89	2.83	2.80	1.47	1.27	1.37	1.37	4.44	3.68	3.88	3.84	-0.04	-1.01	0.16	4.24
Uzbekistan	1.72	1.67	1.63	1.63	1.56	1.42	1.53	1.52	2.68	2.37	2.50	2.48	-0.02	-0.80	0.11	4.64
Turkmenistan	0.60	0.57	0.56	0.56	1.29	1.25	1.32	1.32	0.78	0.71	0.74	0.74	0.00	0.14	0.03	4.37
Pakistan	2.84	2.84	2.72	2.72	1.54	1.09	0.96	0.96	4.36	3.08	2.61	2.61	0.00	0.00	-0.47	-15.26
India	7.70	7.53	7.50	7.50	0.52	0.62	0.57	0.55	4.00	4.67	4.24	4.10	-0.14	-3.37	-0.57	-12.21
Brazil	1.95	1.22	1.13	1.13	0.61	0.60	0.70	0.64	1.19	0.73	0.79	0.72	-0.07	-8.48	-0.01	-0.96
Turkey	0.60	0.64	0.55	0.55	1.47	1.40	1.46	1.46	0.88	0.89	0.81	0.81	0.00	0.00	-0.08	-9.09
African Franc Zone	1.23	1.23	1.13	1.14	0.72	0.78	0.79	0.77	0.89	0.96	0.90	0.87	-0.02	-2.57	-0.09	-9.06
Australia	0.28	0.26	0.27	0.27	2.57	2.02	1.51	1.51	0.72	0.53	0.40	0.40	0.00	0.00	-0.13	-24.24
Egypt	0.36	0.36	0.37	0.37	1.24	1.50	1.70	1.70	0.44	0.54	0.63	0.63	0.00	0.00	0.09	17.76
Argentina	0.58	0.33	0.50	0.50	0.74	0.85	0.83	0.79	0.43	0.28	0.42	0.39	-0.02	-5.53	0.12	42.91
Paraguay	0.48	0.27	0.42	0.42	0.53	0.88	0.83	0.77	0.26	0.23	0.35	0.32	-0.03	-7.71	0.09	38.03
Greece	0.23	0.28	0.34	0.34	1.57	1.57	1.54	1.54	0.36	0.43	0.52	0.52	0.00	0.00	0.09	20.55
Syria	0.17	0.21	0.20	0.20	2.14	1.70	2.24	2.24	0.36	0.36	0.44	0.44	0.00	0.00	0.08	21.11
Mexico	0.25	0.04	0.03	0.03	1.18	1.79	1.77	1.77	0.29	0.08	0.06	0.06	0.00	0.00	-0.02	-26.67
Colombia	0.28	0.12	0.12	0.12	1.01	1.02	0.76	0.76	0.28	0.13	0.09	0.09	0.00	0.00	-0.03	-28.00
Sudan	0.19	0.15	0.15	0.15	0.99	0.99	1.20	0.83	0.19	0.15	0.18	0.13	-0.06	-30.77	-0.02	-16.00
Others	2.84	2.82	2.60	2.60	0.55	0.54	0.51	0.51	1.57	1.51	1.33	1.33	0.00	0.00	-0.18	-11.84

**TABLE 14**  
**Peanut Area, Yield, and Production**  
**World and Selected Countries and Regions**

Country/Region	Area				Yield				Production				Change in Production			
	Prel.				Prel.				Prel.				From last month			
	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	From last month	MMT	Percent	From last year
	Million hectares				Metric tons per hectare				Million metric tons							
World	19.69	19.35	19.71	19.73	1.13	1.20	1.19	1.19	22.24	23.17	23.46	23.49	0.03	0.03	0.14	1.39
United States	0.82	0.68	0.66	0.68	2.74	2.87	2.28	2.25	2.24	1.94	1.51	1.54	0.03	0.03	1.99	-20.79
Total Foreign	18.88	18.68	19.04	19.04	1.06	1.14	1.15	1.15	20.01	21.23	21.95	21.95	0.00	0.00	0.01	3.42
India	8.67	8.35	8.55	8.55	0.82	1.06	0.87	0.87	7.10	8.85	7.40	7.40	0.00	0.00	0.00	-16.42
China	2.88	2.98	3.34	3.34	2.19	2.00	2.40	2.40	6.30	5.95	8.00	8.00	0.00	0.00	0.00	34.39
Indonesia	0.64	0.66	0.67	0.67	1.48	1.48	1.48	1.48	0.95	0.97	0.99	0.99	0.00	0.00	0.00	2.06
Senegal	0.87	0.93	0.78	0.78	0.86	0.63	0.81	0.81	0.75	0.58	0.63	0.63	0.00	0.00	0.00	7.94
Burma	0.54	0.48	0.54	0.54	0.81	0.89	0.85	0.85	0.44	0.43	0.46	0.46	0.00	0.00	0.00	8.24
Argentina	0.19	0.12	0.12	0.12	2.57	2.39	2.50	2.50	0.48	0.28	0.30	0.30	0.00	0.00	0.00	9.09
Sudan	0.53	0.55	0.55	0.55	0.75	0.71	0.71	0.71	0.40	0.39	0.39	0.39	0.00	0.00	0.00	0.00
Zaire	0.53	0.53	0.53	0.53	0.72	0.72	0.72	0.72	0.38	0.38	0.38	0.38	0.00	0.00	0.00	0.00
Nigeria	0.48	0.50	0.50	0.50	0.46	0.50	0.50	0.50	0.22	0.25	0.25	0.25	0.00	0.00	0.00	0.00
Vietnam	0.20	0.30	0.20	0.20	1.08	0.98	1.36	1.36	0.21	0.30	0.27	0.27	0.00	0.00	0.00	-8.14
Rep. of South Africa	0.20	0.16	0.11	0.11	0.56	1.05	1.64	1.64	0.11	0.17	0.18	0.18	0.00	0.00	0.00	4.65
Brazil	0.10	0.09	0.09	0.09	1.68	1.69	1.67	1.67	0.16	0.15	0.15	0.15	0.00	0.00	0.00	3.45
Thailand	0.12	0.12	0.13	0.13	1.31	1.32	1.32	1.32	0.16	0.16	0.17	0.17	0.00	0.00	0.00	1.85
Burkina Faso	0.23	0.23	0.23	0.23	0.69	0.69	0.69	0.69	0.16	0.16	0.16	0.16	0.00	0.00	0.00	0.00
Central African Rep.	0.13	0.13	0.13	0.13	1.12	1.12	1.12	1.12	0.15	0.15	0.15	0.15	0.00	0.00	0.00	0.00
Cameroon	0.32	0.32	0.32	0.32	0.44	0.44	0.44	0.44	0.14	0.14	0.14	0.14	0.00	0.00	0.00	0.00
Cote d' Ivoire	0.15	0.15	0.15	0.15	0.97	0.98	0.98	0.98	0.15	0.15	0.15	0.15	0.00	0.00	0.00	0.00
Gambia	0.10	0.10	0.10	0.10	1.26	1.26	1.26	1.26	0.12	0.12	0.12	0.12	0.00	0.00	0.00	0.00
Uganda	0.14	0.14	0.14	0.14	0.79	0.79	0.79	0.79	0.11	0.11	0.11	0.11	0.00	0.00	0.00	0.00
Others	1.87	1.86	1.88	1.88	0.82	0.84	0.84	0.84	1.53	1.56	1.57	1.57	0.00	0.00	0.19	0.90



TABLE 15

# Sunflowerseed Area, Yield, and Production

## World and Selected Countries and Regions

Country/Region	Area				Yield				Production				Change in Production			
	Prel.				Prel.				Prel.				From last month			
	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	From last month	MMT	Percent	From last year
	Million hectares				Metric tons per hectare				Million metric tons				MMT			
World	17.12	17.63	18.08	17.99	1.26	1.22	1.16	1.17	21.50	21.50	20.91	21.01	0.10	0.50	0.49	-2.28
United States	1.08	0.84	1.01	1.01	1.51	1.41	1.16	1.16	1.64	1.18	1.18	1.18	0.00	0.00	-0.00	-0.25
Total Foreign	16.03	16.80	17.06	16.98	1.24	1.21	1.16	1.17	19.86	20.32	19.73	19.84	0.10	0.53	-0.49	-2.40
FSU-12	4.51	4.99	5.00	5.00	1.25	1.14	1.08	1.08	5.64	5.69	5.41	5.41	0.00	0.00	-0.28	-4.87
Russia	2.58	2.89	2.90	2.90	1.12	1.06	0.97	0.97	2.90	3.07	2.80	2.80	0.00	0.00	-0.27	-8.88
Ukraine	1.60	1.64	1.64	1.64	1.53	1.39	1.34	1.34	2.45	2.28	2.20	2.20	0.00	0.00	-0.08	-3.38
Argentina	2.80	2.30	2.20	2.10	1.36	1.35	1.50	1.62	3.80	3.10	3.30	3.40	0.10	3.03	0.30	9.63
European Union	2.38	2.63	2.93	2.93	1.67	1.53	1.22	1.21	3.98	4.02	3.57	3.55	-0.02	-0.67	-0.46	-11.58
France	1.07	0.99	0.82	0.82	2.40	2.14	2.06	2.04	2.57	2.11	1.69	1.67	-0.02	-1.18	-0.44	-20.85
Spain	1.07	1.37	1.80	1.80	0.84	1.00	0.72	0.72	0.90	1.36	1.30	1.30	0.00	0.00	-0.06	-4.41
Italy	0.13	0.12	0.12	0.12	2.44	2.35	2.18	2.18	0.32	0.28	0.26	0.26	0.00	0.00	-0.02	-7.27
Eastern Europe	1.37	1.76	1.58	1.58	1.72	1.47	1.43	1.43	2.35	2.59	2.25	2.25	0.00	0.00	-0.33	-12.80
Hungary	0.39	0.43	0.38	0.38	2.05	1.77	1.81	1.81	0.80	0.76	0.68	0.68	0.00	0.00	-0.08	-10.05
Romania	0.48	0.62	0.59	0.59	1.28	1.26	1.18	1.18	0.61	0.77	0.70	0.70	0.00	0.00	-0.08	-10.08
Yugoslavia	0.17	0.20	0.20	0.20	2.17	1.86	2.00	2.00	0.38	0.36	0.40	0.40	0.00	0.00	0.04	10.50
Bulgaria	0.27	0.48	0.36	0.36	1.61	1.21	1.04	1.04	0.43	0.58	0.38	0.38	0.00	0.00	-0.20	-34.60
Czechoslovakia	0.06	0.05	0.05	0.05	2.32	2.30	2.00	2.00	0.13	0.12	0.10	0.10	0.00	0.00	-0.02	-13.04
China	0.75	0.81	0.71	0.71	1.47	1.82	1.77	1.77	1.10	1.47	1.25	1.25	0.00	0.00	-0.22	-15.08
Turkey	0.55	0.70	0.70	0.70	1.18	1.40	1.40	1.40	0.65	0.98	0.98	0.98	0.00	0.00	0.00	0.00
India	2.11	2.09	2.30	2.30	0.56	0.57	0.65	0.65	1.19	1.19	1.50	1.50	0.00	0.00	0.32	26.58
Rep. of South Africa	0.45	0.40	0.38	0.38	0.38	0.91	1.10	1.10	0.17	0.36	0.42	0.42	0.00	0.00	0.06	15.38
Australia	0.08	0.06	0.14	0.14	1.06	0.64	0.92	0.92	0.08	0.04	0.13	0.13	0.00	0.00	0.09	242.11
Burma	0.18	0.16	0.17	0.17	0.60	0.71	0.62	0.62	0.11	0.11	0.11	0.11	0.00	0.00	-0.01	-6.25
Others	0.85	0.90	0.96	0.97	0.92	0.88	0.84	0.87	0.79	0.78	0.81	0.84	0.03	3.46	0.05	6.62

**TABLE 16**  
**Rapeseed Area, Yield, and Production**  
**World and Selected Countries and Regions**

Country/Region	Area				Yield				Production				Change in Production			
	Prel.		1993/94 Proj.		Prel.		1993/94 Proj.		Prel.		1993/94 Proj.		From last month		From last year	
	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	MMT	Percent	MMT	Percent
	Million hectares				Metric tons per hectare				Million metric tons							
World	20.69	19.65	20.14	20.14	1.35	1.29	1.34	1.35	27.87	25.36	27.01	27.16	0.15	0.56	1.80	7.11
United States	0.07	0.06	0.08	0.08	1.42	1.55	1.51	1.51	0.09	0.09	0.12	0.12	0.00	0.00	0.03	38.82
Total Foreign	20.62	19.59	20.06	20.06	1.35	1.29	1.34	1.35	27.78	25.28	26.89	27.04	0.15	0.56	1.77	7.00
India	6.55	6.31	6.42	6.42	0.89	0.77	0.90	0.90	5.86	4.87	5.80	5.80	0.00	0.00	0.93	19.05
China	6.10	5.98	5.30	5.30	1.22	1.28	1.28	1.31	7.44	7.65	6.80	6.95	0.15	2.21	-0.70	-9.19
Canada	3.14	2.90	4.06	4.06	1.34	1.27	1.33	1.33	4.22	3.69	5.40	5.40	0.00	0.00	1.71	46.38
European Union	2.51	2.32	2.19	2.19	2.80	2.70	2.74	2.74	7.03	6.25	6.01	5.98	-0.03	-0.43	-0.27	-4.30
France	0.74	0.69	0.57	0.57	3.07	2.64	2.80	2.78	2.27	1.81	1.60	1.57	-0.03	-1.63	-0.24	-13.26
Germany	1.00	1.01	1.02	1.02	2.61	2.79	2.80	2.80	2.62	2.81	2.86	2.86	0.00	0.00	0.05	1.64
United Kingdom	0.44	0.42	0.41	0.41	2.96	2.73	2.59	2.59	1.30	1.15	1.06	1.06	0.00	0.00	-0.09	-7.83
Denmark	0.28	0.17	0.16	0.16	2.59	2.37	2.64	2.64	0.73	0.41	0.43	0.43	0.00	0.00	0.03	6.16
Eastern Europe	0.73	0.61	0.54	0.54	2.26	1.97	2.17	2.17	1.64	1.20	1.16	1.16	0.00	0.00	-0.04	-3.17
Poland	0.47	0.42	0.35	0.35	2.23	1.81	2.00	2.00	1.04	0.76	0.69	0.69	0.00	0.00	-0.07	-8.97
Czechoslovakia	0.17	0.15	0.15	0.15	2.70	2.52	2.80	2.80	0.45	0.38	0.42	0.42	0.00	0.00	0.04	12.00
FSU-12	0.41	0.36	0.34	0.34	0.80	0.90	0.90	0.90	0.33	0.32	0.31	0.31	0.00	0.00	-0.02	-4.98
Russia	0.27	0.20	0.16	0.16	0.74	0.82	0.81	0.81	0.20	0.16	0.13	0.13	0.00	0.00	-0.03	-20.73
Sweden	0.15	0.13	0.15	0.14	1.74	1.94	2.00	2.20	0.25	0.25	0.30	0.31	0.01	4.67	0.07	27.13
Pakistan	0.32	0.32	0.31	0.31	0.69	0.76	0.74	0.74	0.22	0.24	0.23	0.23	0.00	0.00	-0.02	-7.41
Bangladesh	0.35	0.35	0.35	0.35	0.66	0.66	0.66	0.66	0.23	0.23	0.23	0.23	0.00	0.00	0.00	0.00
Finland	0.06	0.07	0.07	0.07	1.72	1.80	1.81	1.81	0.11	0.12	0.13	0.13	0.00	0.00	0.01	6.72
Others	0.32	0.26	0.34	0.35	1.44	1.73	1.58	1.58	0.46	0.45	0.54	0.55	0.01	2.23	0.10	21.95



**TABLE 17**  
**Copra, Palm Kernel, and Palm Oil Production**  
**World and Selected Countries and Regions**

Country/Region	Production				Change in Production			
	Prel.		1993/94 Proj.		From last month		From last year	
	1991/92	1992/93	Mar.	Apr.				
	Million metric tons				MMT	Percent	MMT	Percent
COPRA								
World	4.73	4.73	4.66	4.66	0.00	0.00	−0.07	−1.52
Philippines	1.93	2.10	2.00	2.00	0.00	0.00	−0.11	−5.13
Indonesia	1.33	1.15	1.20	1.20	0.00	0.00	0.05	4.35
India	0.45	0.45	0.45	0.45	0.00	0.00	0.00	0.00
Mexico	0.19	0.20	0.20	0.20	0.00	0.00	0.00	0.00
Sri Lanka	0.06	0.08	0.07	0.07	0.00	0.00	−0.01	−12.50
Vietnam	0.13	0.13	0.13	0.13	0.00	0.00	0.00	0.00
Malaysia	0.08	0.07	0.07	0.07	0.00	0.00	−0.00	−2.70
Others	0.56	0.55	0.55	0.55	0.00	0.00	−0.00	−0.36
PALM KERNEL								
World	3.41	4.00	4.36	4.36	0.00	0.00	0.37	9.19
Malaysia	1.81	2.14	2.28	2.28	0.00	0.00	0.14	6.69
Indonesia	0.66	0.86	1.03	1.03	0.00	0.00	0.16	19.19
Nigeria	0.27	0.28	0.28	0.28	0.00	0.00	0.00	0.00
Cote d' Ivoire	0.06	0.06	0.07	0.07	0.00	0.00	0.01	12.07
Colombia	0.07	0.07	0.08	0.08	0.00	0.00	0.00	4.17
Thailand	0.05	0.06	0.06	0.06	0.00	0.00	0.00	9.09
Zaire	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00
Ecuador	0.02	0.02	0.02	0.02	0.00	0.00	0.00	4.55
Others	0.44	0.48	0.52	0.52	0.00	0.00	0.04	8.94
PALM OIL								
World	11.49	12.95	13.85	13.85	0.00	0.00	0.90	6.95
Malaysia	6.22	7.13	7.60	7.60	0.00	0.00	0.47	6.67
Indonesia	2.75	3.25	3.60	3.60	0.00	0.00	0.35	10.77
Nigeria	0.63	0.60	0.60	0.60	0.00	0.00	0.00	0.00
Cote d' Ivoire	0.28	0.29	0.31	0.31	0.00	0.00	0.02	5.80
Colombia	0.30	0.32	0.33	0.33	0.00	0.00	0.01	2.80
Thailand	0.22	0.24	0.27	0.27	0.00	0.00	0.03	12.08
Zaire	0.11	0.11	0.11	0.11	0.00	0.00	0.00	0.00
Ecuador	0.14	0.14	0.14	0.14	0.00	0.00	0.00	1.43
Others	0.85	0.87	0.89	0.89	0.00	0.00	0.02	2.06

April 1994

Production Estimates & Crop Assessment Division, FAS, USDA

TABLE 18

# Cotton Area, Yield, and Production

## World and Selected Countries and Regions

Country/Region	Area				Yield				Production				Change In Production			
	Prel.				Prel.				Prel.				From Last Month			
	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	1991/92	1992/93	Mar.	Apr.	From Last Month	Percent	MBales	Percent
	Million hectares				Kilograms per hectare				Million 480 lb. bales				MBales	Percent	MBales	Percent
World	34.80	32.81	31.51	31.47	601	549	537	531	95.99	82.77	77.70	76.75	-0.96	-1.23	-6.02	-7.28
United States	5.25	4.51	5.18	5.18	731	783	681	681	17.61	16.22	16.18	16.18	0.00	0.00	-0.04	-0.26
Total Foreign	29.56	28.30	26.33	26.30	577	512	509	501	78.38	66.55	61.53	60.57	-0.96	-1.55	-5.98	-8.99
Major Exporters	18.07	17.28	15.54	15.51	743	620	638	632	61.64	49.22	45.55	45.00	-0.56	-1.22	-4.23	-8.59
China	6.54	6.84	5.46	5.46	869	659	690	690	26.10	20.70	17.30	17.30	0.00	0.00	-3.40	-16.43
Pakistan	2.84	2.84	2.72	2.72	768	543	480	483	10.00	7.07	6.00	6.02	0.02	0.40	-1.05	-14.83
Sudan	0.19	0.15	0.15	0.15	438	395	480	358	0.39	0.28	0.34	0.25	-0.09	-25.37	-0.03	-9.42
Turkey	0.60	0.64	0.55	0.55	937	901	943	943	2.58	2.64	2.40	2.40	0.00	0.00	-0.23	-8.92
FSU-12	3.01	2.89	2.83	2.80	814	701	749	746	11.25	9.30	9.75	9.60	-0.15	-1.54	0.30	3.23
Uzbekistan	1.72	1.67	1.63	1.63	860	784	842	830	6.79	6.00	6.30	6.20	-0.10	-1.59	0.20	3.33
Turkmenistan	0.60	0.57	0.56	0.56	710	684	719	719	1.97	1.79	1.85	1.85	0.00	0.00	0.06	3.35
Other	0.69	0.65	0.64	0.61	790	505	541	550	2.49	1.51	1.60	1.55	-0.05	-3.13	0.04	2.65
Egypt	0.36	0.36	0.37	0.37	814	988	1089	1089	1.34	1.62	1.85	1.85	0.00	0.00	0.23	14.20
African Franc Zone	1.23	1.24	1.14	1.14	438	438	452	444	2.47	2.50	2.37	2.32	-0.05	-1.90	-0.18	-7.05
Southern Hemisphere	3.31	2.34	2.32	2.32	494	477	522	494	7.52	5.12	5.55	5.25	-0.30	-5.41	0.13	2.52
Argentina	0.58	0.33	0.50	0.50	431	431	479	457	1.15	0.64	1.10	1.05	-0.05	-4.55	0.41	63.30
Australia	0.28	0.26	0.27	0.27	1780	1424	1068	1068	2.31	1.71	1.30	1.30	0.00	0.00	-0.41	-24.11
Brazil	1.97	1.49	1.13	1.13	381	310	405	385	3.45	2.11	2.10	2.00	-0.10	-4.76	-0.11	-5.35
Paraguay	0.48	0.27	0.42	0.42	281	536	544	467	0.62	0.65	1.05	0.90	-0.15	-14.29	0.25	38.04
Major Importers	0.44	0.43	0.41	0.41	831	837	880	880	1.67	1.67	1.65	1.65	0.00	0.00	-0.01	-0.90
Other Foreign	11.04	10.59	10.38	10.38	297	322	300	292	15.06	15.66	14.32	13.92	-0.40	-2.79	-1.74	-11.10
India	7.70	7.53	7.50	7.50	267	316	290	279	9.43	10.93	10.00	9.60	-0.40	-4.00	-1.33	-12.18
Others	3.35	3.06	2.88	2.88	366	336	327	327	5.63	4.73	4.32	4.32	0.00	0.00	-0.41	-8.60



**TABLE 19**

The table below presents a 12-year record of the difference between the April projections and the final estimates. Using world wheat production as an example, changes between the April projection and the final estimate have averaged 2.7 million tons (0.5 percent) and ranged from -6.8 to 6.5 million tons. The April projection has been below the final 7 times and above the final 5 times.

**RELIABILITY OF PRODUCTION PROJECTIONS**

COMMODITY AND REGION	PROJECTION AND FINAL ESTIMATES, 1981/82 – 1992/93 1/					
	Difference		Lowest	Highest	Below	Above
	Average	Average	Difference		Final	Final
	Percent	--- Million metric tons ---			Number of years 2/	
<b>WHEAT</b>						
World	0.5	2.7	–6.8	6.5	7	5
U.S.	0.1	0.0	–0.1	0.1	5	2
Foreign	0.6	2.7	–6.8	6.5	7	5
<b>COARSE GRAINS 3/</b>						
World	0.6	4.5	–9.3	4.3	8	4
U.S.	0.1	0.2	–0.2	1.3	8	1
Foreign	0.8	4.6	–9.3	4.3	8	4
<b>RICE (Milled)</b>						
World	1.4	4.4	–9.0	10.8	9	3
U.S.	1.3	0.1	–0.2	0.1	4	2
Foreign	1.4	4.4	–9.0	10.8	9	3
<b>SOYBEANS</b>						
World	1.5	1.4	–2.5	1.8	7	5
U.S.	1.0	0.5	–1.1	1.8	5	5
Foreign	2.2	1.0	–2.2	1.9	10	2
		--- Million 480-lb. bales ---				
<b>COTTON</b>						
World	0.8	0.7	–3.0	0.8	8	3
U.S.	0.2	0.0	–0.1	0.1	5	2
Foreign	1.0	0.7	–3.0	0.8	7	4
<b>UNITED STATES</b>		----- Million bushels -----				
<b>CORN</b>	0.1	4	–8	38	1	1
<b>SORGHUM</b>	0.1	1	0	4	0	2
<b>BARLEY</b>	0.5	2	–3	11	7	1
<b>OATS</b>	0.1	0	–2	0	3	0

1/ The final estimate for 1981/82-1992/93 is defined as the first November estimate following the marketing year.

2/ May not total 12 if projection was the same as the final.

3/ Includes corn, sorghum, barley, oats, rye, millet, and mixed grain.

# WORLD AGRICULTURAL WEATHER HIGHLIGHTS

APRIL 12, 1994



## 6 - SOUTH AFRICA

A drying trend across western corn areas aided maturing crops. Late-March showers across the east benefited late-planted corn but came too late for sugarcane.

## 7 - SOUTH ASIA

Conditions during March favored winter grains and oilseeds over Pakistan and northwestern India. In early April, heavy showers in eastern rice areas increased irrigation for rice planting but caused some flooding and winter crop damage in Bangladesh. Unseasonable April rain elsewhere boosted reservoir levels but slowed harvests.

## 1 - UNITED STATES

Wet, cool weather slowed early fieldwork in the Corn Belt and northern Great Plains. Seasonal precipitation fell further behind normal in the western States. Dryness slowed southern Plains HRW wheat development. Warm, open weather and adequate soil moisture favored crop growth in the Delta and southeastern States.

## 2 - SOUTH AMERICA

Variable showers stabilized soybean yield prospects in Argentina, but slowed sunseed and cotton harvesting. In Brazil, below normal March rainfall aided summer crop harvesting.

## 3 - EUROPE

Wet weather across the north provided ample soil moisture for emerging winter crops but slowed early spring fieldwork in France. Mild weather promoted greening of winter grains. Much-needed rain in early April helped crops in the Balkans, but dryness persisted in Spain.

## 4 - FSU

In Russia, mild weather and generous precipitation provided favorable moisture for greening winter grains and spring grain planting. Moisture is limited in Moldova and southwestern Ukraine.

## 5 - NORTHWESTERN AFRICA

Below normal precipitation in Morocco limited moisture for winter grains in the heading stage. Adverse dryness covered winter grains in Algeria and Tunisia, reducing crop prospects.

## 8 - EASTERN ASIA

In China, seasonable March temperatures prompted winter wheat to break dormancy across the North China Plain. Recent rains favored vegetative wheat across most of the region. Rainfall remained adequate for rice irrigation supplies across central and southern China.

## 9 - SOUTHEAST ASIA

Unusually heavy rain covered much of Indochina, reducing irrigation requirements. Continuing heavy rain over Java caused some flooding to rice. The Philippine rainy season got off to a good start, but Typhoon Owen crossed the Visayas in early April, leaving some rice and corn areas too wet to plant.

## 10 - AUSTRALIA

Dry weather since mid-March has favored eastern summer crop maturation and harvesting, and recent wheat field preparations in Queensland.



## WEATHER BRIEFS

### THAILAND: MARCH RAINFALL ABOVE NORMAL IN NORTH

Rainfall was well above normal during March 1994 across northern Thailand. This precipitation helped increase reservoir levels, which were critically low by the end of February 1994 and below the low levels of February 1993. Since early March, northern and northeastern Thailand have received 100 to 200 millimeters, or about 4 to 10 times their normal rainfall according to meteorologists at the NOAA/USDA Joint Agricultural Weather Facility. The predominantly irrigated second rice crop, which accounts for about 10 percent of the total production, benefited from both the rain and accompanying cooler weather. During April 3 - 12, 1994 hot and mostly dry weather returned to northern Thailand.

### EAST AFRICA: MAIN CROP RAINY SEASONS START WITH MIXED RESULTS

Widespread moderate precipitation during the period of March 11 through April 12, 1994, favored germination and early growth of main season crops across Kenya and northern Tanzania. However, according to meteorologists at the NOAA/USDA Joint Agricultural Weather Facility, satellite imagery analysis shows that March dryness, caused by early withdrawal of the rainy season in countries of south central Africa, such as Zambia, Malawi, and northwestern Mozambique, also spread into eastern Angola, where some yield losses are probable. During March 13 - 19, moderate rainfall (5 to 30 millimeters) reduced dryness in Ethiopia. However, crop prospects deteriorated, as rainfall was below normal during the rest of the period through April 12. In Somalia, satellite imagery analysis indicates that the main rainy season started on schedule, with daily showers commonplace since April 5.

### NORTHWESTERN AFRICA: DRY CONDITIONS CONTINUE

Precipitation during March 1994 was only 25 to 50 percent of normal across the winter grains growing regions of Morocco, Algeria and Tunisia. During April, winter grains in this region enter the moisture critical reproductive stages. Morocco's winter grain crop experienced more favorable weather than Algeria and Tunisia during October through January this growing season. However, in Morocco since early March, precipitation has been inadequate for winter grains. As of April 12 Morocco's winter grains are maintaining crop conditions by using the ever declining soil moisture reserves. Light-to-moderate rain (10 to 30 millimeters) brought temporary improvement in winter grain conditions across the northern winter grain areas of eastern Algeria and Tunisia during early April. However, winter grain conditions in these two countries are less than normal, and at this point in the season damage to winter crop is irreversible.

### EUROPE: SOME RELIEF FOR DRY AREAS

At the beginning of March 1994, unfavorably dry top soils were limiting early spring growth for winter grains and other crops in eastern Spain, the Po Valley of Italy, as well as much of Romania and Bulgaria. While precipitation during March was mostly above normal across northern and central Europe, precipitation was below normal across the south. During the period of March 11 through April 12, 1994, in Spain, unfavorable growing conditions continued for non-irrigated crops due to continued dryness. Variable rainfall in northern Italy during March 27 through April 10 provided temporary improvement in crop conditions. During the period of April 6 - 10, the first significant rainfall since March 12 fell across Romania and Bulgaria. Amounts for the week exceeded 50 millimeters and temporarily boosted conditions for spring crop growth.

## PRODUCTION BRIEFS

### AUSTRALIA: CATTLE FEEDLOT CAPACITY EXPANDING

The recent removal of import quotas from the Japanese beef market has encouraged rapid expansion of feedlots in Australia, according to the U.S. agricultural counselor in Canberra. In November 1992, feedlot capacity was just over 450,000 head, with utilization reported at only 64 percent. In February 1993, capacity was reported at 520,000 head and utilization at 85 percent. By the end of 1996, feedlot capacity is projected to exceed 680,000 head, more than 50 percent above 1992. If beef cattle are fed for three months, on average, two million head could be fed annually based on current capacity, i.e., approximately one-fourth of Australia's annual cattle slaughter.

In Australia, feedlots were first set-up to maintain and/or restore weight loss due to poor pasture conditions following prolonged drought. Some lots are still used for this type of supplemental feeding, but production of grain-fed beef has become the driving factor behind expansion of feedlot capacity. Approximately 80 percent of Australia's grain-fed beef is exported, with most going to Japan, its second largest beef export market. Grain-fed beef has grown from less than 5 percent of Australian beef sales to Japan in 1988, to an estimated 30 percent in 1993.

### BRAZIL: ORANGE CROP ESTIMATE REVISED UPWARD

The estimate for Brazil's 1992/93 orange crop (harvested May through December 1993) has been revised upward to 346.0 million 40.8-kilogram boxes (14.1 million tons) by the U.S. agricultural officer in Sao Paulo. This is 6 percent above the previous forecast, but 6 percent below 1991/92. The revised forecast is based on an increase in the number of bearing trees reported by the Sao Paulo citrus industry. The industry revised its estimate of bearing tree numbers based on new remote sensing imagery.

### GERMANY: HOG CHOLERA RESTRICTIONS TIGHTENED

Following the initial cholera (classical swine fever) outbreak in January 1993, German authorities put in place control measures designed to contain the disease, according to the U.S. agricultural counselor in Bonn. However, during the year, 90 additional cases of hog cholera were reported and more than 60,000 hogs were killed. Late in the year, some of the control measures were relaxed and the area under quarantine was reduced.

Despite active control measures, 25 new cases of hog cholera have been reported in Germany's Lower Saxony region since the beginning of 1994. In a further tightening of restrictions, the EU Commission ruled that live hogs could not be shipped outside Lower Saxony, effective March 30, 1994. The 40,000 affected farmers in Lower Saxony have expressed opposition to the new controls, but the German Farmers' Federation expressed approval. Their willingness to accept these new measures comes amid fears that, if there is no improvement in the situation, the EU will impose an embargo on trade in live hogs and pigmeat for the entire country.



### CHILE: AVOCADO PRODUCTION FORECAST UP IN 1994

The U.S. agricultural attache in Santiago is forecasting Chile's 1994 avocado crop at 50,000 tons, up 11 percent from 1993, due to an increase in the number of bearing trees. Total planted area has expanded steadily in recent years due to excellent returns from several popular varieties, especially Haas, and the favorable export climate.

### CHILE: STRAWBERRY PRODUCTION FORECAST UP IN 1993/94

Chile's strawberry production is forecast up 14 percent in 1993/94 (October/September), to 16,000 tons, due to an increase in planted area and favorable growing conditions. Production of processed strawberries (mostly frozen) is forecast at 3,990 tons, up 4 percent from last season. The upturn is based on the potential for a larger fresh crop and initial assessments that there will be no increase in fresh exports.

Over the last decade, the area planted to strawberries has ranged from 300 to 700 hectares. Planted area is dependent on a combination of weather, export prices, and the availability of nursery stock. Of the three strawberry-producing nurseries in operation five years ago, only one continues to supply strawberry plants for commercial production. The other two have gone out of business, mainly because the yearly demand for plants was so variable that stock levels could not be accurately gauged. As a result, Chilean planted area is not expected to increase in the long term because the only existing nursery has reached its plant-growing capacity and there are no indications that additional nurseries will commence operations.

Strawberries are planted on a two-year rotational cycle from Region I through Region X, but over 75 percent is planted in Region VI and the Metropolitan Region. Most strawberry varieties in Chile originated in California, but are well-suited to the Chilean climate and soil conditions. The main varieties planted are Tioga, Douglas, Pajaro, Chandler, Parker, and Santana. Because most growers plant a combination of these varieties, the harvest period is long (October through May). However, Chilean yields average less than 20.0 tons per hectare--a low level compared to some producing countries--primarily due to phytosanitary problems and, frequently, inclement weather.

### CHILE: STRAWBERRY AREA AND PRODUCTION

<u>Year</u>	<u>Planted Area</u> (Hectares)	<u>Total</u> <u>Production</u> (Metric tons)	<u>Processing</u> <u>Utilization</u> (Metric tons)
1989/90	370	6,280	N/A
1990/91	645	15,000	N/A
1991/92	600	11,000	3,278
1992/93	640	14,000	3,840
1993/94 <u>1/</u>	700	16,000	3,990

1/ Preliminary.

### THAILAND: LOW PRICES CAUSE CUTBACK IN PINEAPPLES FOR CANNING

Thailand's 1994 production of fresh pineapples for canning is forecast at 1.5 million tons, down from 1.7 million tons in 1993, according to the U.S. agricultural attache in Bangkok. Low producer prices have caused growers to scale down their pineapple area and reduce fertilizer and/or chemical applications. In recent years, the Thai Government has expressed concern that, eventually, there will be an over-supply of pineapple and domestic prices will plummet. Consequently, the Government has begun to encourage crop substitution, particularly plantings of mangoes, papayas, guavas, and vegetables.

#### JAPAN: STRAWBERRY AREA AND PRODUCTION TRENDING DOWNWARD

Japan's strawberry production for 1993/94 (October 1993 through September 1994) is estimated at 200,700 tons, down 4 percent from the previous year. A reduction in planted area, from 9,070 hectares in 1992/93 to 8,800 hectares in 1993/94, as well as insect problems in some producing areas precipitated the decline. The area planted to strawberries has been trending downward steadily, decreasing approximately 3 percent annually due to the general long-term contraction of Japanese agriculture.

The peak strawberry season in Japan is December through June. Traditionally, the season began in early-Spring, but increasing demand for strawberries during the winter holidays has led to earlier planting and harvesting. Currently, about 10 percent of the total crop is harvested in December, fetching especially high prices during the Christmas/New Year season. Approximately 78 percent of Japan's strawberry crop is grown in hot houses and 17 percent in "tunnels", which leaves only 5 percent as conventional open-air production.

Japan's frozen strawberry production is minor, and like total production, is trending downward. The 1993/94 frozen strawberry pack is estimated at 700 tons (product weight), down 7 percent from 1992/93. Currently, imports supply 97 percent of Japan's frozen strawberry needs.

#### JAPAN: TOTAL AND FROZEN STRAWBERRY PRODUCTION

<u>Year</u>	<u>Total Production</u> (Metric tons)	<u>Frozen Production</u> (Metric tons, product weight)
1980/81	192,500	1,666
1981/82	199,300	1,828
1982/83	196,700	1,518
1983/84	198,100	1,186
1984/85	195,700	1,921
1985/86	200,500	1,093
1986/87	210,200	670
1987/88	219,400	534
1988/89	215,500	561
1989/90	217,100	1,009
1990/91	213,300	727
1991/92	208,600	790
1992/93 <u>1/</u>	209,000	750
1993/94 <u>2/</u>	200,700	700

1/ Preliminary.

2/ Forecast.

#### COTE D'IVOIRE: COFFEE PRODUCTION ESTIMATE REVISED DOWNWARD

The 1993/94 coffee production estimate for Cote d'Ivoire has been revised downward nearly 20 percent, to 3.0 million bags, according to the U.S. agricultural attache in Abidjan. The estimate was lowered because reduced yields and poor harvesting practices resulted in lower-than-expected coffee deliveries from growers.

The decline in output is the result of continued low returns to growers which led to poor farm management throughout the season and incomplete harvesting. Farm income from coffee has been steadily declining, to the point where growers are no longer able to hire labor for pruning, weeding or harvesting. Because growers have been relying primarily on family labor, their coffee plantations were



not maintained adequately during the season and only one or two passes were made through the fields during the harvest period rather than the usual five or six. In an attempt to address this problem, the Government raised the producer price for coffee from 140 to 170 CFA francs per kilogram, farmgate, at the beginning of the 1993/94 marketing year on October 1, 1993. Following the 50 percent devaluation of the CFA franc in January 1994, the price was raised to 220 CFA francs per kilogram. On March 18, 1994, the Government again increased the price, to 265 CFA francs per kilogram.

The decline in coffee production has brought about a situation that has not occurred in recent memory—i.e., purchasing agents and middlemen are offering prices above the Government producer price. Coffee is being bought at 225 CFA francs per kilogram, five francs per kilo above the Government price. This situation exists because exporters are vying for the limited amount of green coffee available in order to meet export contracts.

(CFA 585 = US\$1.00)

#### MEXICO: STRAWBERRY PRODUCTION FORECAST DOWN IN 1993/94

Mexico's 1993/94 strawberry crop is forecast at 72,000 tons, down 10 percent from 1992/93. This downturn is the result of less area devoted to strawberry production due to low producer prices and a severe shortage of credit. Given the projected reduction in Mexico's fresh crop, utilization of strawberries for freezing is forecast to decline 20 percent in 1993/94, to 28,000 tons.

After the initial area expansion that followed the Government's elimination of the strawberry acreage quota system in 1988, both planted and harvested area have been declining slowly throughout Mexico. Since 1992, this downward trend has been hastened by lower-than-expected farmgate prices, weather problems, and the growers' poor financial status.

#### STRAWBERRIES: FRESH AND FROZEN

<u>Year</u>	<u>Area Harvested</u> (Hectares)	<u>Yield</u> (Tons/hectare)	<u>Total Production</u> (Metric tons)	<u>Processing Utilization</u> (Metric tons)
1987/88	5,600	20.0	112,000	51,408
1988/89	6,000	16.0	96,000	30,000
1989/90	6,300	18.0	113,400	45,000
1990/91	6,200	16.1	100,000	47,000
1991/92	4,500	15.6	70,000	38,500
1992/93	3,700	21.6	80,000	35,000
1993/94 <u>1/</u>	3,400	21.2	72,000	28,000

1/ Preliminary.

#### POLAND: POULTRY MEAT PRODUCTION DOWN IN 1993

Poultry meat production totaled 300,000 tons in 1993, down 11 percent from 1992, according to the U.S. agricultural attache in Warsaw. High feed costs, high interest rates and the loss of energy-related subsidies hurt broiler production, particularly during the first half of the year.

By late-1993, Poland's larger 1993/94 grain crop translated into lower feed costs. Concurrently, stronger demand, due to short supplies of red meats, raised poultry prices and restored profitability to the sector. With more favorable financial conditions for producers at the start of the year, 1994 output of poultry meat is expected to show a modest increase.

## POLAND: STRAWBERRY PRODUCTION TRENDING UPWARD

Poland is one of the major strawberry producers in Europe, contributing about 10 percent of the world's annual supply. However, since 1990, the profitability of strawberry cultivation has been declining due to relatively sharp increases in production costs. Poland's transformation to a free-market system has meant the elimination of input subsidies and government programs that set prices and guaranteed growers that all strawberries produced would be purchased. Consequently, production has been trending downward. Poland's 1992/93 crop dropped to an eight-year low of 200,000 tons primarily because escalating production costs precipitated a 4-percent decline in the area under strawberry cultivation. Producer prices rose markedly in response to the short supply situation in 1992/93 which led to investments in new plantings. A slow upward trend is projected, beginning with the 1993/94 crop forecast of 202,000 tons. By 1995/96, when the plantings reach full productivity, output is expected to reach 240,000 to 270,000 tons.

Despite Poland's rank as a major strawberry producer, average yields are only 4.2 to 6.2 tons per hectare, compared with over 15.0 tons per hectare in other major producing countries. Poland's low yields reflect the absence of irrigation, the poor quality of the nursery stock, and limited use of chemicals and other plant protection measures.

Senga Sengata is the most popular strawberry variety cultivated in Poland and is harvested on about 80 percent of the planted area. The rich, red color and good flavor of this variety make it attractive to the processing sector. An estimated 118,000 tons of fresh strawberries went into processing in 1992/93. The amount to be processed in 1993/94 is estimated at 119,000 tons.

## POLAND: STRAWBERRY PRODUCTION AND AREA

<u>Years</u>	<u>Area Planted</u> (1,000 Hectares)	<u>Total Production</u> (Metric tons)	<u>Processing Utilization</u> (Metric tons)
1980/81	54,000	192,000	87,000
1981/82	54,000	211,000	100,000
1982/83	45,000	191,000	99,000
1983/84	44,000	186,000	99,000
1984/85	47,000	212,000	116,000
1985/86	52,000	267,000	150,000
1986/87	54,000	334,000	199,000
1987/88	58,000	249,000	115,000
1988/89	60,000	269,000	130,000
1989/90	58,000	241,000	120,000
1990/91	62,000	263,000	110,000
1991/92	63,000	205,000	120,000
1992/93 <u>1/</u>	60,500	200,000	118,000
1993/94 <u>2/</u>	66,500	202,000	119,000

1/ Preliminary.

2/ Forecast.



## ROMANIA: LIVESTOCK INDUSTRY IN DECLINE

High feed costs and a weak economy are discouraging Romanian livestock producers and, as a result, causing deterioration throughout the industry, according to the U.S agricultural counselor reporting from Sofia. The slow rate at which collective farms are being dismantled and the land returned to private owners is putting significant pressure on livestock producers. An additional factor constraining growth is the limited access private farms and the remaining collective farms have to financial and technical resources.

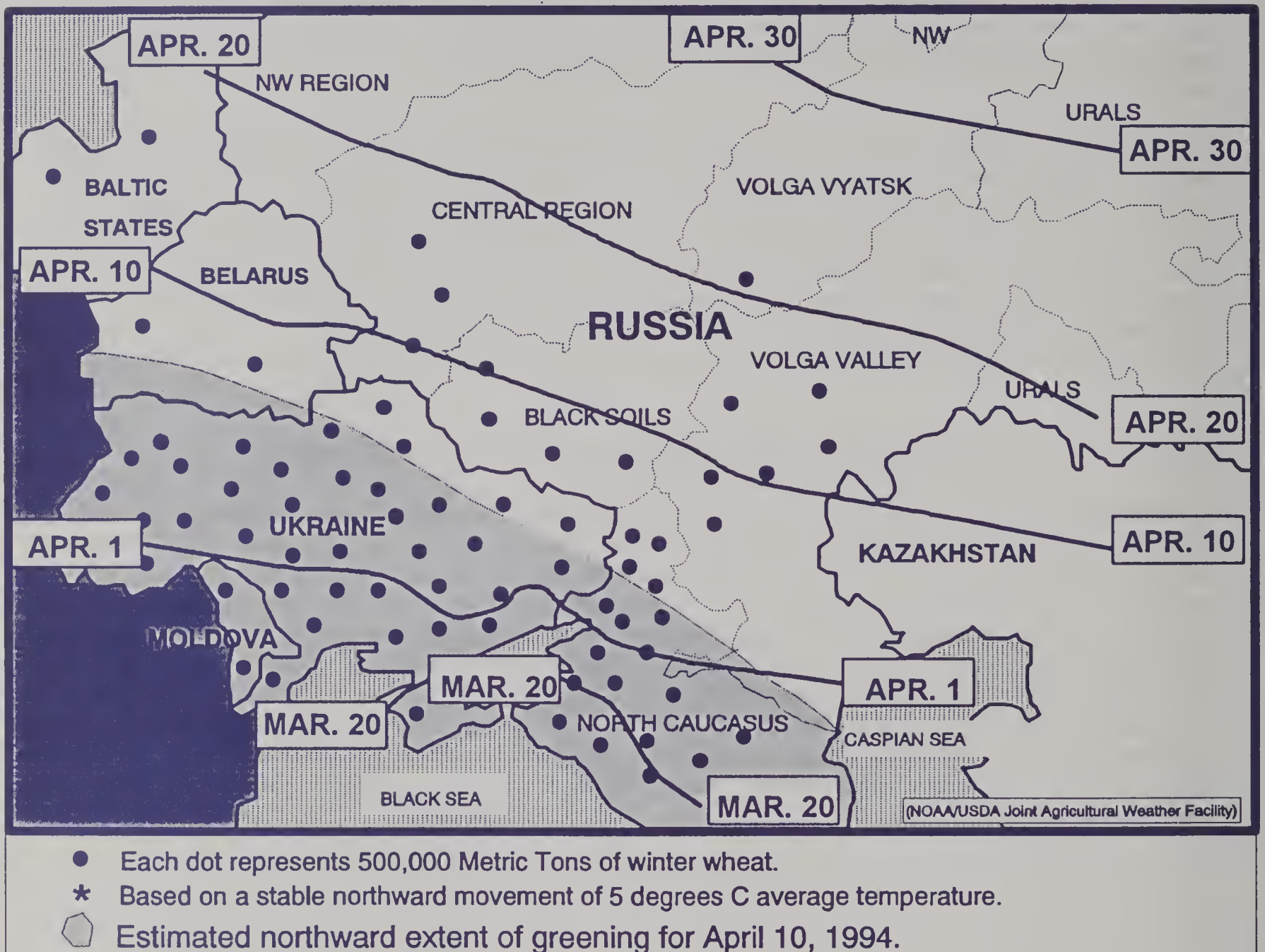
Cattle inventories dropped from 6.28 million head at the start of 1990 to 3.68 million at the start of 1993, a 41-percent decline. During 1993, total cattle numbers increased slightly, to 3.71 million head, but cow numbers continued to fall. Private farmers own 83 percent of the cattle, but they do not have the capital to buy high-quality protein feeds nor the financial and technical resources to keep pastures from deteriorating. With more animals at the start of the year, beef and veal production for 1994 is forecast at 175,000 tons, up slightly from the 172,000 tons produced in 1993, but less than half the 370,000 tons produced in 1990.

## FORMER SOVIET UNION: WEATHER AND CROP DEVELOPMENTS

In March, above-normal precipitation covered most of Russia, the Baltic States, and Belarus, increasing moisture for the upcoming growing season. In Ukraine, above-normal precipitation in March fell over northern and eastern areas. However, dryness persisted in southwestern Ukraine and Moldova, limiting moisture for winter grains which broke dormancy during the month. Near-to-above-normal temperatures in March over Ukraine and North Caucasus, Russia diminished snow cover, allowing some early spring fieldwork. Since early-April, near-normal temperatures in northeastern Russia (eastern Central Region, Volga Vyatsk, and upper Volga) gradually melted snow cover. Continued unseasonably mild weather over Ukraine and southern Russia (North Caucasus and lower Volga) stimulated rapid greening of winter grains and warmed topsoils for spring grain emergence. Although light, scattered showers over Moldova and southwestern Ukraine dampened topsoils, additional moisture is needed for early-spring growth.

# FORMER SOVIET UNION (WESTERN)

AVERAGE DATES FOR EARLY SPRING GROWTH \*



## HIGHLIGHTS: MARCH 10 - APRIL 11, 1994

- o In Russia, Baltic States, and Belarus, most areas received above-normal precipitation in March.
- o In Ukraine, above-normal precipitation in March covered northern and eastern areas. Persistent dryness in Moldova and southwestern Ukraine has limited topsoil moisture for early growth.
- o Fieldwork in preparation for spring grain planting began in Ukraine and southern Russia.
- o Winter grains were greening as far north as northern Ukraine and northern North Caucasus.



## FEATURE COMMODITY ARTICLES

### MACADAMIA NUT PRODUCTION IN SELECTED COUNTRIES

Macadamia nut production in six of the world's major producing countries totaled 40,159 tons (net wet-inshell basis) in 1992/93, up 9 percent from 1991/92. Production increases from maturing trees in Australia, Brazil, Costa Rica, and Guatemala offset weather-reduced crops in Kenya and the United States. The 1993/94 forecast of 42,600 tons reveals a similar trend--declining production in Kenya and the United States and larger harvests in the other five countries.

United States: The United States is the largest producer of macadamia nuts in the world, with output normally more than double the next largest producer, Australia. The bulk of the U.S. crop is grown in Hawaii, although a small amount is produced in California.

Macadamia nut production for the 1993/94 crop year (July-June) is estimated at 21,319 tons, 2 percent below 1992/93 and the fourth consecutive downturn due to dry weather since the record crop of 22,906 tons in 1989/90.

Area harvested increased in 1993/94 as younger trees came into bearing. However,

rainfall scarce rainfall upset the normal flowering pattern, inhibited kernel growth, and promoted insect damage in some orchards. Compared with the 1992/93 crop, yields for the current season declined 7 percent, to an average of 2.9 tons per hectare.

There are currently 650 macadamia nut growers in Hawaii, up from 550 growers in 1982/83. Although most macadamia farms are relatively small (less than four hectares), 2 percent have more than 40 hectares and account for over 80 percent of the planted area.

Barring weather anomalies, macadamia nut production should begin to expand in the near future as trees planted in the mid-1980's reach full productivity. These plantings are located in areas that were previously devoted to sugarcane, but were abandoned as financial constraints forced some cane growers to scale back acreage or leave the business. Future plantings may be limited by the decline in producer prices over the past few years due, in part, to increased world competition.

#### UNITED STATES: MACADAMIA NUT AREA AND PRODUCTION 1/

<u>Year</u>	<u>Area</u>		<u>Yield per</u>	
	<u>Planted</u>	<u>Harvested</u>	<u>Hectare</u>	<u>Production 2/</u>
	(Hectares)			(Metric tons)
1982/83	6,313	4,128	4.03	16,656
1983/84	6,637	4,290	3.85	16,520
1984/85	7,082	4,856	3.53	17,100
1985/86	8,458	5,463	3.49	19,051
1986/87	8,580	5,828	3.42	19,958
1987/88	8,701	6,313	3.07	19,368
1988/89	8,863	6,718	3.07	20,638
1989/90	9,024	7,365	3.11	22,906
1990/91	9,146	7,446	3.05	22,680
1991/92	9,106	7,365	3.05	22,453
1992/93	8,296	7,082	3.07	21,772
1993/94 <u>3/</u>	8,134	7,487	2.85	21,319

1/ Hawaiian data only.

2/ Wet-inshell basis.

3/ Preliminary.

Australia: Australia is the world's second-largest macadamia nut producer. Many plantings have yet to reach full yield potential and numerous areas are still being planted. With these new plantings, Australia could become the world's largest producer by the turn of the century. The Australian Macadamia Society is predicting that macadamia nut production will reach 19,000 tons by 1996 and 30,000 tons by 1999.

Macadamia nut production increased 48 percent in 1992/93, to 10,200 tons. The mild 1993 winter and ample rainfall in New South Wales, coupled with favorable weather in Queensland, is expected to boost production another 22 percent in 1993/94 (the harvest is March through May 1994), to 12,400 tons.

Australia's commercial production is centered in northeastern New South Wales and southeastern Queensland which provide the rich soils and high annual rainfall needed to promote maximum growth. These areas account for around 90 percent of Australian production. The remainder of Australia's plantings are located along the northern coast of New South Wales, in central and northern Queensland, and in Western Australia.

There are about 600 commercial macadamia farms in Australia, and another 50 non-commercial holdings. The average farm size is about 9 hectares. During the 1970's and early-1980's, a number of macadamia plantations were established as corporate farming ventures.

The macadamia nut is indigenous to Australia and is sometimes known as the "Australian Bush Nut", the "Queensland Nut", or the "Bauple Nut." Macadamia integriflora is the main commercial species accounting for 98 percent of total production. This variety naturally occurs within 15 miles of the coast in lower Queensland. The other main variety, Macadamia tetraphylla, is native mainly to New South Wales and has a rougher shell.

Yields in Australia tend to be lower than in Hawaii because most Hawaiian trees are already mature and, therefore, achieve a higher yield. Also, Hawaiian tree varieties that currently dominate commercial production in Australia have not fully adapted to the Australian environment. Local and imported macadamia trees are being studied in order to select genetic material that is better suited to Australia's climate.

#### AUSTRALIA: MACADAMIA NUT AREA AND PRODUCTION

Year	<u>Total Tree Numbers</u> (1,000)	<u>Area Planted</u> (Hectares)	<u>Production 1/</u> (Metric Tons)
1980/81	424	1,410	1,409
1981/82	489	1,630	1,339
1982/83	520	1,730	1,700
1983/84	590	1,970	1,700
1984/85	650	2,170	2,500
1985/86	736	2,450	2,800
1986/87	885	2,950	3,000
1987/88	938	3,130	3,874
1988/89	1,284	4,280	4,544
1989/90	1,604	5,350	5,761
1990/91	1,741	5,800	7,222
1991/92	1,902	6,000	6,901
1992/93 <u>2/</u>	2,000	6,020	10,200
1993/94 <u>3/</u>	2,050	6,050	12,400

1/ Wet-inshell basis.

2/ Preliminary.

3/ Forecast.



Costa Rica: Macadamia nut production was introduced into Costa Rica in the late-1940's, although commercial production did not begin until the early-1980's. Planted area increased throughout the 1980's, reaching a record 8,450 hectares in 1993/94.

Macadamia nuts are produced primarily in the North and Atlantic regions of Costa Rica, although there are some commercial orchards in the South. The varieties best suited to Costa Rica are HAES 344, HAES 660, and HAES 508.

Production of macadamia nuts in 1992/93 totaled 2,700 tons, up 23 percent from 1991/92. In 1993/94, production is forecast at 3,000 tons mainly due to higher yields from maturing trees.

Macadamia nuts are harvested year-round in Costa Rica, although there are two distinct harvest periods. The heaviest period is between October and December; the other is between May and June.

Production is expected to expand substantially beginning in 1995/96 when most of the 6,500 hectares planted to macadamia nuts will be in

full production. Total planted area actually exceeds 8,400 hectares, but the area that can be considered commercially viable is estimated at 6,500 hectares.

Inshell yields in Costa Rica average about one ton per hectare. The low average yield is mainly the result of abandonment. During 1990, producer prices--which are largely based on international prices--dropped from US\$5.50 per kilogram to US\$2.75 per kilogram due to a large Hawaiian crop. Many growers could not weather the financial squeeze and abandoned their orchards. For the remaining growers, the price slump necessitated a cutback in inputs, which also reduced yields. Macadamia nut prices have improved significantly since 1990. During the 1992/93 season, producer prices ranged from US\$4.25 to US\$5.25 per kilogram.

Costa Rica's macadamia nut industry consists of about 730 producers and three processors. At the beginning of 1994, only one plant had the capacity to process 2,000 tons of nuts annually. The second processor commenced operation in early-1994 with an annual processing capacity of 1,000 tons. The third plant processes less than 1,000 tons per year.

#### COSTA RICA: MACADAMIA NUT AREA AND PRODUCTION

	<u>YearArea</u> (Hectares)	<u>PlantedArea Harvested</u> (Hectares)	<u>Production 1/</u> (Metric tons)
1979/80	190	n/a	5
1980/81	320	n/a	33
1981/82	700	n/a	66
1882/83	1,300	n/a	109
1983/84	2,200	n/a	400
1984/85	3,000	n/a	615
1985/86	4,200	n/a	760
1986/87	4,600	n/a	900
1987/88	5,441	n/a	1,200
1988/89	6,573	n/a	1,438
1989/90	7,518	n/a	1,544
1990/91	8,147	n/a	1,650
1991/92	8,350	n/a	2,200
1992/93 <u>2/</u>	8,400	6,500 <u>4/</u>	2,700
1993/94 <u>3/</u>	8,450	6,500 <u>4/</u>	3,000

1/ Wet-inshell basis.

2/ Preliminary.

3/ Forecast.

4/ Harvestable commercial acreage.

Guatemala: Over the next several years, macadamia nut production will expand significantly as increasing numbers of plantings come into bearing and average yields rise as trees mature. In 1992/93, production totaled 1,588 tons, up 11 percent from 1991/92. Production in 1993/94 is forecast up 18 percent, to 1,881 tons.

The area planted to macadamia trees was approximately 2,800 hectares in 1992/93, of which 787 hectares were harvested. Planted area in 1993/94 is expected to remain at 2,800 hectares, but there will be an additional 120 hectares of newly bearing trees, bringing the total harvest area to 907 hectares.

Guatemala's commercial development of macadamia nuts began in 1972 when the first large plantation was developed at Finca El Carmen, in the Department of Suchitepequez. There are now approximately 62 macadamia nut producers in Guatemala, most of whom are located at intermediate elevations along the Pacific slope in the Departments of San Marcos, Quetzaltenango, Suchitepequez, Solola, Alta Verapaz, Chimaltenango, and Santa Rosa.

There are two significant producer/exporter companies in Guatemala. Both companies own macadamia nut plantations and simultaneously purchase nuts from individual growers for processing and export.

#### GUATEMALA: MACADAMIA NUT PRODUCTION

Years	Production <u>1</u> / (Metric tons)
1979/80	249
1980/81	240
1981/82	330
1982/83	400
1983/84	620
1984/85	500
1985/86	945
1986/87	800
1987/88	1,090
1988/89	1,420
1989/90	1,388
1990/91	1,053
1991/92	1,429
1992/93 <u>2</u> /	1,588
1993/94 <u>3</u> /	1,881

1/ Wet-inshell basis.

2/ Preliminary.

3/ Forecast.

Kenya: Macadamia nut production in 1993/94 is forecast at 3,070 tons, down from 3,299 tons a year earlier. The reduction is due to excessively dry weather during the crucial flowering period and heavy insect damage.

Kenya's macadamia nut industry is dominated by small-scale farmers who account for more than 90 percent of total output. Macadamia trees generally are grown as filler between coffee trees and other crops such as bananas, corn, and beans.

Until recently, the processing and export of macadamia nuts was handled exclusively by one company through a restrictive licensing arrangement with the Ministry of Agriculture. The commissioning of a competing firm in early-1992 boosted grower enthusiasm for this crop. The competition between these two companies has resulted in a significant increase in grower prices for inshell nuts during the past year and a half. However, grower plans to expand production are being constrained by a shortage of seedlings. In an attempt to meet the demand



for seedlings, one company is developing a nursery that will have the capacity to distribute approximately 5,000 grafted seedlings by the end of 1994. This effort is being supplemented by ongoing nursery programs operated by the other company and the Government's Macadamia Research Center. Jointly, these nurseries plan to distribute about 20,000 seedlings per year at a cost of US\$0.22 per seedling.

The area planted to macadamia trees in 1993/94 is estimated at 5,600 hectares. Growing areas are found throughout Kenya, although production is concentrated in the coffee areas of the central and eastern provinces. Small-scale farmers, cultivating only one or two hectares, account for 5,260 hectares. Medium-sized farmers account for 41 hectares and the two large processors own 299 hectares.

Macadamia trees flower throughout the year in Kenya, but the critical period that yields 70 percent of total annual output coincides with the short rainy season that lasts from August through October. Harvesting of macadamia nuts also is a year-round activity, but the heaviest harvesting period is March through June. The dominant varieties grown in Kenya are Macadamia tetraphylla and Macadamia integriflora.

South Africa: Macadamia tree plantings for commercial production began in the 1960's, but output was minimal until the early-1980's. Only recently has production expanded to a level that convinced growers that a producer organization was needed to monitor production and coordinate marketing efforts.

Production grew rapidly--from 229 tons in 1979/80, to 1,143 tons in 1985/86, and a high of 1,714 tons in 1991/92. Production in 1993/94 is forecast at 1,350 tons, up 7 percent from the drought-reduced crop of 1992/93, but 21 percent below 1991/92.

The area planted to macadamia trees is estimated at 3,833 hectares, of which 245 hectares are not yet in production. The major growing areas are located near the towns of Levubu and Lowveld in South Africa's subtropical belt that extends from the northeast south into Natal.

Brazil: Macadamia nut production for 1993/94 is estimated at 930 tons (crop was harvested in February and March 1994), up 55 percent from the 1992/93 crop of 600 tons. Production is expanding rapidly as new trees come into bearing. The Brazilian crop projection for the year 2000 is 4,000 tons.

The macadamia tree was introduced into Brazil in 1955. However, commercial plantings began in the late 1970's with seed imports from Hawaii. All varieties currently cultivated in Brazil originated from Hawaii. In most macadamia orchards, producers intercrop with papaya, passion fruit, or coffee.

The area planted to macadamia nut trees is estimated at 6,200 hectares, with only 1,140 hectares in production. The State of Sao Paulo has the largest area, followed by Bahia and Espirito Santo. In the States of Sao Paulo and Minas Gerais, macadamia trees replaced old coffee plantations, mostly because producers were dissatisfied with coffee prices. In Espirito Santo, macadamia trees were introduced as part of reforestation projects.

Since 1992, the decline in macadamia seedling prices, from US\$10.00 to approximately US\$3.00 per tree, has favored new plantings. The cost to establish macadamia orchards in Brazil is currently estimated at US\$1,600 per hectare, not including the land. A return on investment is expected after the eighth year. The annual cost to maintain one hectare is estimated at US\$250 until the sixth year, after which the annual cost increases to approximately US\$500 per year.

BRAZIL: MACADAMIA NUT AREA AND PRODUCTION

Year	Area (Hectares)	Production <u>1</u> / (Metric tons)
1988/89	N/A	200
1989/90	N/A	220
1990/91	3,200	260
1991/92	4,500	360
1992/93 <u>2</u> /	5,350	600
1993/94 <u>3</u> /	6,200	930

1/ Wet-inshell basis.

2/ Preliminary estimate.

3/ Forecast.

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TABLE 20

**MACADAMIA NUT PRODUCTION IN SELECTED COUNTRIES**  
(Metric tons/Wet-inshell basis)

	<u>1991/92</u>	<u>1992/93</u>	<u>1993/94</u>	<u>1/</u>
Australia	6,901	10,200	12,400	
Brazil	360	600	930	
Costa Rica	2,200	2,700	3,000	
Guatemala	1,429	1,588	1,881	
Kenya	3,555	3,299	3,070	
South Africa	1,715	1,260	1,350	
United States	<u>22,453</u>	<u>21,772</u>	<u>21,319</u>	
TOTAL	38,613	41,419	43,950	

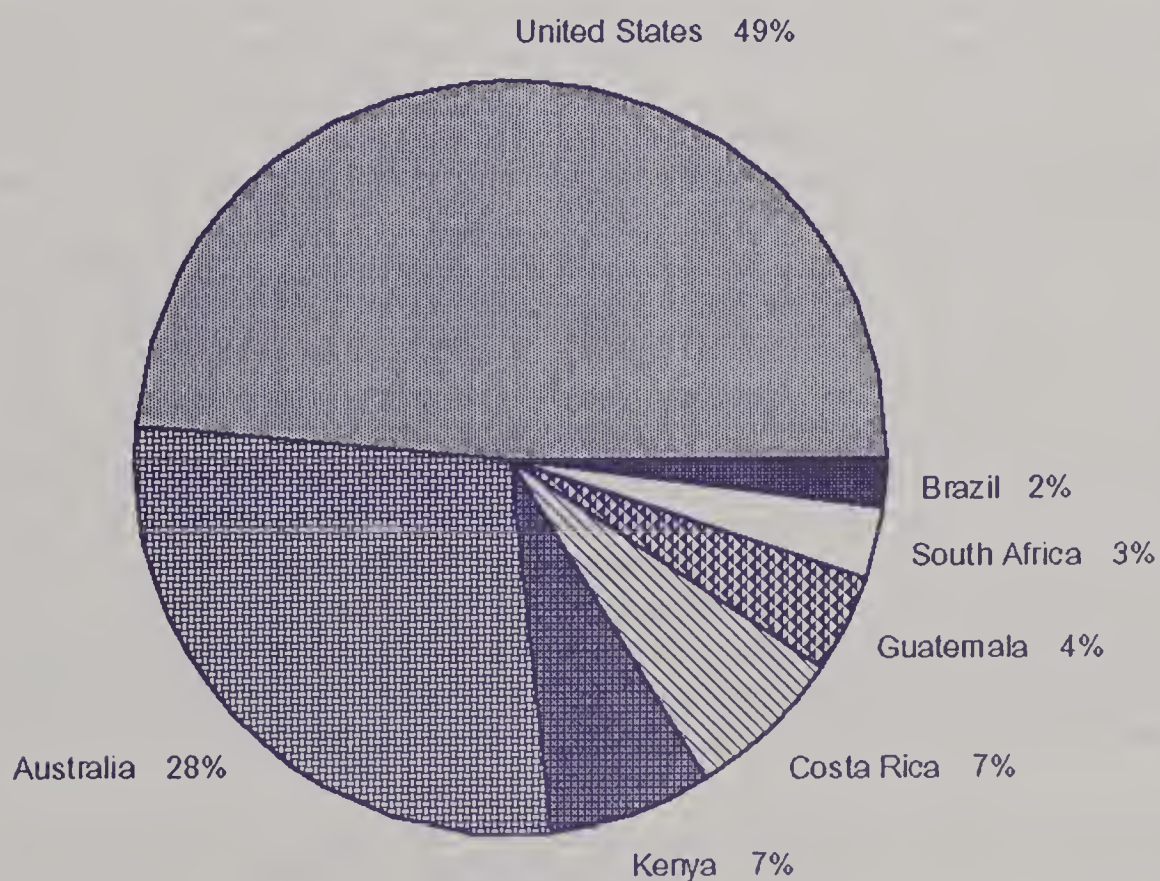
1/ Preliminary.

CHART 1

**Macadamia Nut Production - Selected Countries**

**1993/94**

(Percent)



## 1994 FOREIGN WINTER GRAIN PROSPECTS IN THE NORTHERN HEMISPHERE OUTSIDE THE UNITED STATES

This article presents early indications of Northern Hemisphere winter grain prospects outside the United States based on reports from U.S. agricultural attaches and analyses by Washington-based USDA personnel. The first forecast of 1994/95 area, yield, and production for grains will be published in the May "World Agricultural Production" Circular.

**SUMMARY:** Winter grain area for 1994/95 outside the United States probably will not reach the level achieved last season. In Russia, a wet fall severely hampered planting, while in Ukraine, sown area increased over last year but winterkill is expected to be above average. In Pakistan and India, crop area is expected to be lower than last year since planting weather was unfavorably dry and producers reportedly have switched to alternative crops. In the Middle East, grain area is expected to be lower due to policy changes in Saudi Arabia and unfavorable conditions for planting and germination in Turkey. In Northwest Africa, area is expected to be higher than last year, but dry weather is reducing yield potential. In the European Union (EU) and Eastern Europe, area is expected to be slightly higher than last year as farmers respond to policy changes and stronger prices. For China, area is reported to be down slightly from last year.

**EUROPEAN UNION (EU):** Winter grain area in the EU is expected to be slightly higher this season. Planted area in Germany, Spain, and the U.K. increased, while area in Denmark, France, and Italy decreased. Although weather has forced some area to be planted or replanted to spring grains, most of the changes are in response to relative prices. The 1994/95 season is the second year of the Common Agricultural Policy (CAP) reform. Many winter grain producers in the EU faced a wet fall and winter. Planting delays were experienced in the United Kingdom, France, Italy, and Germany, with rainfall exceeding 100 to 200 percent of normal. There is some concern that the extremely wet autumn,

which delayed harvesting of summer crops and hampered planting of winter grains, led to a less-than-adequate establishment of root systems. Also, bitter cold swept across the northern Europe in late November and again in February. The cold air outbreak may have caused some winterkill. A drying trend since late-winter and early-spring over portions of eastern Spain and Italy's Po Valley has reduced moisture supplies needed for normal spring growth. This spring's weather across the remaining EU countries has generally been seasonably wet and slightly warmer than normal.

**EASTERN EUROPE:** Winter grain area in Eastern Europe is expected to be higher than a year ago. Winter grain conditions varied from north to south. In the north-central/northeastern countries, abundant fall moisture caused some planting delays, while the southeast experienced dry conditions until beneficial rain fell in November. Like the other European countries, periods of very cold weather in November and February may have resulted in average to above average winterkill in parts of Eastern Europe. Reports from Bulgaria and Romania indicate that area is expected to increase, but remain virtually unchanged in Poland. Dry, warm weather returned to Romania and Bulgaria during the winter and spring rain is needed as the crop breaks dormancy. For Poland, widespread rainfall in March provided ample topsoil moisture. In addition, reports indicate that input usage is lower than last year in most of the countries due to high prices.

**FORMER SOVIET UNION (FSU):** Russia and Ukraine are the primary producers of winter grains in the FSU. In Russia, wet weather in the central growing regions hampered plantings of the 1994/95 winter grain crops. As a result of 1993/94 harvest delays, wet fields, and shortage/high cost of inputs, area is reported to be down sharply from 1993/94. In December and January, abundant moisture and mild weather prevailed, but bitterly cold weather in November and February caused localized winterkill in areas where snow cover was shallow or non-existent. Cumulative precipitation since last fall has



been near to above normal in most areas, providing adequate to abundant moisture for early spring growth. In Ukraine, sown area is greater than last season's, but the combination of prolonged dry weather in the summer and fall and an early arrival of winter in southern Ukraine caused spotty germination and limited plant establishment. In addition, Ukraine experienced two severe cold weather events: one in November and the other in February. Winterkill is believed to be above average. Winter grains are breaking dormancy and additional precipitation is needed in the south since fall rains provided limited soil moisture. Winter grain area is expected to be lower in many countries of the region but larger spring grain area will be at least partially offsetting.

**ASIA:** In China, winter grain area is expected to be down slightly from 1993/94. Shandong and Henan are the primary wheat producing Provinces, accounting for about one-third of the total wheat output. Near-to-above-normal autumn rains across the North China Plain allowed crops to become well established. The winter was seasonably dry, and recent warm weather stimulated early-winter wheat growth. For Pakistan, the 1993 monsoon rainfall was below normal, prompting reports of reduced plantings, especially in rainfed areas (about 18 percent of Pakistan's wheat area is rainfed). Phosphatic fertilizer availabilities for usage at planting was down substantially, as high costs deterred applications. Scattered, light, and timely rainfall prevailed across Pakistan into March, but still at a below-normal level. Harvest occurs between March and May. In India, area is expected to be down slightly as farmers switch to other crops, notably rapeseed. An early retreat of the monsoon in northern India resulted in a moisture deficit in some winter crop areas. However, timely showers from mid-January to mid-February helped the rainfed wheat areas advancing through reproduction. In late March, dry, warm weather favored crop drydown and harvests in central India, although periodic heat threatened immature crops in the north. Harvest has begun in Madhya Pradesh and southern Uttar Pradesh, while harvest will begin mid-April in the major surplus-producing

regions of Punjab, Haryana, and western Uttar Pradesh.

**NORTHWEST AFRICA:** After two consecutive years of drought in Morocco, early season weather was favorable and there are indications that sown area returned to previous levels. Crops continued to receive adequate moisture during the early vegetative stage, but dry conditions in the last few weeks have caused some concern about prospects for winter grains in critical growth stages. In Algeria, planting moisture was favorable in the west, but limited in the east. Late-February and March weather was unfavorably dry over the growing regions. Crop area in both Algeria and Tunisia is reportedly lower than last year. In Tunisia, dryness at planting severely hampered crop emergence, especially in the central and southern growing regions. Following beneficial rain in early-February, there has been dry weather since late-February and March which has negatively affected crops.

**MIDDLE EAST:** Winter grain area in Saudi Arabia for 1994/95 is reported to be sharply lower than last season due to implementation of measures taken by the Saudi Ministry of Agriculture and Water. The Ministry announced production quotas for both wheat and barley which appear to be dictated by budget considerations and concern about water supply. All crops are irrigated. In Turkey, winter grain prospects are not optimistic. Barley area expanded at the expense of wheat due to better price support and disease and insect problems with wheat. Unusually dry autumn weather hindered wheat and barley germination in most areas; however, the country experienced a mild winter. Recent scattered rainfall alleviated some crop stress, but precipitation during April and May will determine the final outcome of the crop.

**NORTH AMERICA:** In Mexico, winter wheat area is expected to be slightly larger than last year as producers shifted land from corn and dry beans into the more profitable wheat crop. About 65 to 70 percent of the total wheat crop is grown in Sonora, Sinaloa, Guanajuato, and Baja, California, and is harvested in the spring. Below normal rainfall during the growing season to date has reduced reservoir levels needed for irrigation, but temperatures have

been normal. In Canada, the winter wheat area is reported to be up slightly from last year as more area was available to sow due to improved fall harvest conditions. Winter wheat comprises only 5 percent of the total wheat crop. Winter wheat was established under wet conditions and has received regular precipitation since last fall. The

crop normally greens up in April. Alberta and Saskatchewan have received steady precipitation since fall, while Manitoba has been somewhat dry. Planting for the spring crop begins mid-May to early June.

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# NORTHERN HEMISPHERE AGRICULTURAL WEATHER HIGHLIGHTS

APRIL 18, 1994

## EUROPE

ABUNDANT AUTUMN MOISTURE;  
UNFAVORABLY DRY WINTER  
ACROSS THE SOUTH;  
BITTER COLD NOV. AND FEB., NE;  
RECENT BENEFICIAL RAIN, SE

## RUSSIA/UKRAINE

WET FALL HAMPERS PLANTING; ABUNDANT MOISTURE  
IN MARCH FAVORS W. GRAIN GROWTH AND  
S. GRAIN PLANTING; /  
DRYNESS SINCE LAST FALL AND SEVERE NOV. COLD  
HAMPERS WHEAT ESTABLISHMENT, SOUTHERN AREAS;

## NORTHWESTERN AFRICA

MOROCCO: FAVORABLE PLANTING MOISTURE;  
RECENT DRYNESS LOWERS CROP PROSPECTS  
ALGERIA AND TUNISIA: DROUGHT ADVERSELY  
IMPACTS WINTER GRAINS

## CANADA

GENERALLY FAVORABLE FOR  
GREENING WINTER WHEAT;  
SPRING WHEAT - TOPSOILS DRY IN  
MANITOBA, OK ELSEWHERE

## CHINA

NEAR- TO ABOVE NORMAL  
AUTUMN RAINS;  
RECENT RAINS BENEFIT  
VEGETATIVE WINTER WHEAT

## TURKEY

LOW MOISTURE IN FALL AND WINTER  
HURTS CROP PROSPECTS

## SOUTH ASIA

INDIA: TIMELY SHOWERS ACROSS  
THE REGION; SOME HEAT STRESS  
ON NORTHERN CROPS  
PAKISTAN: DROUGHT CONTINUES,  
ALTHOUGH RAIN HELPS  
NORTHERN IRRIGATION RESERVES  
BANGLADESH: EARLY - FLOODING

## SOUTHEAST ASIA GRAIN PRODUCTION

Southeast Asia, for the purposes of this article, is comprised of Burma, Cambodia, Indonesia, Laos, Malaysia, Philippines, Thailand, and Vietnam. Total grain production in Southeast Asia for 1993/94 is estimated at 90.4 million tons from an harvested area of 46.3 million hectares. Production for 1993/94 is down slightly from the 90.7 million tons produced a year earlier. Area and production have, however, been trending upward over the past decade.

Burma: Rice is the main grain crop in Burma. Milled rice output for 1993/94 is estimated at a record 8.8 million tons, up 13 percent from 1992/93. Harvested area is estimated at 5.4 million hectares, up 12 percent from a year ago. The U.S. agricultural attache in Bangkok reported an increase in second-crop (dry season) rice area to 0.7 million hectares, a four-fold increase from last year. This increase is due to an ambitious government program to expand second-crop area to 2.0 million hectares within the next several years. The second crop is irrigated from reservoirs, rivers, creeks, and tube wells. The bulk of the second crop is situated in the delta areas of Irrawaddy, Pegu, and Rangoon Divisions.

Cambodia and Laos: For 1993/94, Cambodia and Laos are estimated to produce 1.2 and 0.8 million tons of rice (milled-basis), respectively. This is a reduction of 8 percent and 17 percent, respectively, due to inclement weather and disease during late 1993 - early 1994. Irrigation technology, in each country, is rudimentary with very few areas using pumps to lift water from rivers. Productivity is low and under the constant threat of further decline due to weather anomalies, disease, and soil degradation.

Indonesia: Rice, the principal grain, accounts for 85 percent of total grain production and is the most attractive investment in terms of risk and return. Rice output for 1993/94 is estimated at 31.0 million tons (milled-basis), down 1 percent from last year's record production of 31.4 million tons. Harvested area is estimated to decrease to

10.8 million hectares, down 3 percent from last season. Throughout Java, the main rice producing island, irrigation reservoirs were at or below normal levels because of late season dryness during the last quarter of 1993. However, unusually heavy rains in early 1994 have returned reservoir levels to normal but caused a reduction in planted area. Due to a burgeoning population, the Government of Indonesia is striving to increase its self-sufficiency in rice production. Efforts made to achieve this include: (1) improvements in extension efforts on planting intensity; (2) construction of new irrigated rice fields, especially outside of Java; and, (3) lowering post-harvest losses which are reported to be 10 to 20 percent.

Corn production for 1993/94 is forecast at 5.5 million tons, down 4 percent from last season. Harvested area is estimated at 3.0 million hectares, down 3 percent from a year ago. Corn is primarily a secondary crop, usually planted in the dry season after the main rice crop. The major producing areas are Java, Lampung, and south Sulawesi. The greatest potential for gains in production is increasing the use of hybrid seed. Currently, about 10 percent of total planted area is planted to hybrid seed.

Malaysia: Rice output is estimated at 1.2 million tons (milled basis), up 3 percent from 1992/93 due to higher planted area and abundant rainfall in the major crop areas. Harvested area is estimated to increase to 0.68 million hectares, up 2 percent from last year. Since government policy discourages the opening of new areas for paddy cultivation outside eight designated areas of Peninsular Malaysia, harvested area has only fluctuated within a fairly narrow range of 0.66 - 0.68 million hectares in recent years. In addition, Malaysia may be pressured to reduce its subsidy and price support schemes due to the successful conclusion of the Uruguay Round. However, the Government argues that rice farmers as a group have one of the highest rates of poverty in Malaysia and, therefore, the subsidies act as a



welfare net.

Philippines: Milled rice output is estimated at 6.0 million tons, down 3 percent from 1992/93. Harvested area is forecast at 0.7 million hectares, down 13 percent from last year due to typhoon damage. In 1993, the Government instituted the Grains Production Enhancement Program (GPEP). The program was to provide free certified seed, improve irrigation, reduce post harvest losses, and furnish greater research and extension support to farmers. However, the positive impact of certified seed on yields during the first year of the program have not materialized due to insufficient seed production exacerbated by weather-related seed losses and budgetary constraints. Rice continues to be one of the most important crops, both in terms of food use and production value. It is grown throughout the country, with the major areas in central Luzon, the western Visayas, southern Mindanao, and the Cagayan Valley of north central Luzon. Roughly 60 percent of the crop is grown during the main season. The 5-year average yield is 1.80 tons per hectare, with roughly half of total rice area being irrigated. The potential for increased yield is constrained primarily by insufficient irrigation, poor maintenance of existing irrigation systems, low availability of certified seed, and insufficient use of fertilizer.

Corn production for 1993/94 is estimated at 4.5 million tons, down 5 percent from last season. Harvested area is estimated at 3.1 million hectares, down 7 percent from a year ago due to wind damage and flooding caused by the unprecedented typhoon activity during 1993. Corn is grown throughout the Philippines and in terms of value and producer income is the third most important agricultural commodity produced, after rice and coconuts. About two-thirds of the corn is produced on the island of Mindanao, where there is normally ample rainfall and little typhoon damage. Yield has trended upward over the past decade. Efforts are being made through the GPEP to increase yield by providing certified seed. In addition, an important objective of the Government is to develop small-scale irrigation projects in selected corn areas which have the

greatest additional production potential during the dry season, i.e., southern Mindanao and north central Luzon.

Thailand: Rice is a dominant crop in Thailand's agriculture. Milled rice production for 1993/94 is estimated at 12.2 million tons, down 9 percent from last season. Harvested area is estimated at 8.7 million hectares, down 5 percent from a year ago. The main-season crop, which represents 88 percent of total rice production, was harvested by March. As a result of inadequate rainfall in most provinces in the North and Central regions, production for the main-season crop was reduced from last year's level. The second-season crop, which is 70 percent irrigated, has been planted and will be harvested May through August. Due to continuing water shortages, the Thai Government is again encouraging farmers to reduce plantings of second-crop rice. The Agriculture Ministry has created the "Second Rice Crop Reduction Program", in which the Government will supply free alternative crop seeds as well as fertilizer to farmers in the 11 provinces along the Chao Phaya river system. In addition, the Government will drill tube wells for farmers agreeing to produce replacement crops and penalize those who join the program but continue to plant second-crop rice.

Corn production for 1993/94 is estimated at 2.9 million tons, down 15 percent from last year due to below normal rainfall and record low reservoir levels. Harvested area is estimated at 1.1 million hectares, down 11 percent from last season. Despite being a chief feedstuff, corn production has declined since the mid-1980's in response to poor weather, unattractive prices versus competing crops, and governmental restrictions on the use of forest lands. Among these limitations, hot, dry conditions appeared to be the most significant factor reducing production in recent years. Corn is produced mainly in the North, the western ridge of the Northeast, and the higher elevations of the Central Plains. Production in the near term is expected to remain stable as farmers still use a relatively low level of hybrid corn, given its higher production costs.

Vietnam: Rice production, on a milled-basis for 1993/94, is estimated at 14.4 million tons, up 1 percent from last year. Harvested area is estimated at 6.4 million hectares, down 2 percent from 1992/93. Vietnam produces rice year-round, with the crop divided into three seasons: the main season or 10th-month crop, the winter-spring crop, and the summer-autumn crop. For the last few years, the winter-spring crop has accounted for 42 percent of total rice production while the summer-autumn and 10th-month crops accounted for 23 percent and 35 percent, respectively. The 10th-month crop has been harvested. Weather associated with the 10th-month crop was variable with several typhoons hitting the coast, but the overall rainfall pattern was not widespread. Production is estimated to be similar to last year.

The winter-spring crop is presently being harvested in the south and will not begin until June in the north. The outlook for this crop is favorable as the Government responded to higher world rice prices and encouraged an expansion of production. The summer-autumn crop is estimated to be near last year's level.

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TABLE 21

# SOUTHEAST ASIA GRAIN AREA

(1,000 hectares)

	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94
<b>Burma</b>											
Corn	208	229	199	179	160	121	123	123	124	137	115
Millet	180	180	180	180	180	156	177	177	180	175	5,443
Rice, Milled	4,661	4,603	4,660	4,666	4,483	4,527	4,733	4,797	4,524	4,855	5,260
Wheat	143	131	120	119	127	120	121	130	135	135	135
<b>TOTAL</b>	<b>5,192</b>	<b>5,143</b>	<b>5,159</b>	<b>5,144</b>	<b>4,950</b>	<b>4,924</b>	<b>5,152</b>	<b>5,227</b>	<b>4,963</b>	<b>5,302</b>	<b>10,953</b>
<b>Cambodia</b>											
Corn	35	35	35	35	35	35	25	25	22	25	25
Rice, Milled	1,611	1,063	1,541	1,532	1,600	1,670	1,640	1,740	1,670	1,600	1,600
<b>TOTAL</b>	<b>1,646</b>	<b>1,098</b>	<b>1,576</b>	<b>1,567</b>	<b>1,635</b>	<b>1,705</b>	<b>1,665</b>	<b>1,765</b>	<b>1,692</b>	<b>1,625</b>	<b>1,625</b>
<b>Indonesia</b>											
Corn	3,002	3,086	2,440	3,047	2,675	2,850	2,700	2,700	2,900	3,050	2,950
Rice, Milled	9,162	9,764	9,902	9,896	9,800	9,800	10,530	10,502	10,282	11,103	10,800
<b>TOTAL</b>	<b>12,164</b>	<b>12,850</b>	<b>12,342</b>	<b>12,943</b>	<b>12,475</b>	<b>12,650</b>	<b>13,230</b>	<b>13,202</b>	<b>13,182</b>	<b>14,153</b>	<b>13,750</b>
<b>Laos</b>											
Rice, Milled	647	680	730	730	675	650	700	860	750	800	700
<b>TOTAL</b>	<b>647</b>	<b>680</b>	<b>730</b>	<b>730</b>	<b>675</b>	<b>650</b>	<b>700</b>	<b>860</b>	<b>750</b>	<b>800</b>	<b>700</b>
<b>Malaysia</b>											
Corn	14	15	15	15	17	18	19	20	20	21	20
Rice, Milled	648	626	649	635	629	655	612	662	650	660	675
<b>TOTAL</b>	<b>662</b>	<b>641</b>	<b>664</b>	<b>650</b>	<b>646</b>	<b>673</b>	<b>631</b>	<b>682</b>	<b>670</b>	<b>681</b>	<b>695</b>
<b>Philippines</b>											
Corn	3,270	3,314	3,545	3,563	3,725	3,750	3,607	3,861	3,482	3,330	3,100
Rice, Milled	3,141	3,222	3,403	3,402	3,280	3,485	3,445	3,433	3,288	3,237	3,200
<b>TOTAL</b>	<b>6,411</b>	<b>6,536</b>	<b>6,948</b>	<b>6,965</b>	<b>7,005</b>	<b>7,235</b>	<b>7,052</b>	<b>7,294</b>	<b>6,770</b>	<b>6,567</b>	<b>6,300</b>
<b>Thailand</b>											
Corn	1,825	1,955	2,266	1,815	1,754	1,600	1,400	1,350	1,350	1,230	1,100
Rice, Milled	9,606	9,629	9,833	9,659	9,237	9,917	9,986	8,792	9,053	9,177	8,700
Sorghum	251	284	241	223	204	170	160	190	140	140	150
<b>TOTAL</b>	<b>11,682</b>	<b>11,868</b>	<b>12,340</b>	<b>11,697</b>	<b>11,195</b>	<b>11,687</b>	<b>11,546</b>	<b>10,332</b>	<b>10,543</b>	<b>10,547</b>	<b>9,950</b>
<b>Vietnam</b>											
Corn	378	384	400	420	430	511	510	507	515	500	500
Rice, Milled	5,742	5,842	5,825	5,679	5,732	5,982	6,053	6,268	6,521	6,525	6,400
<b>TOTAL</b>	<b>6,120</b>	<b>6,226</b>	<b>6,225</b>	<b>6,099</b>	<b>6,162</b>	<b>6,493</b>	<b>6,563</b>	<b>6,775</b>	<b>7,036</b>	<b>7,025</b>	<b>6,900</b>
<b>SE ASIA</b>											
Corn	8,732	9,018	8,900	9,074	8,796	8,885	8,384	8,586	8,413	8,293	7,810
Millet	180	180	180	180	180	156	175	177	180	175	5,443
Rice, Milled	35,218	35,429	36,543	36,199	35,436	36,686	37,699	37,054	36,738	37,957	37,335
Sorghum	251	284	241	223	204	170	160	190	140	140	150
Wheat	143	131	120	119	127	120	121	130	135	135	135
<b>TOTAL</b>	<b>44,524</b>	<b>45,042</b>	<b>45,984</b>	<b>45,795</b>	<b>44,743</b>	<b>46,017</b>	<b>46,539</b>	<b>46,137</b>	<b>45,606</b>	<b>46,700</b>	<b>50,873</b>

TABLE 22

# SOUTHEAST ASIA GRAIN YIELD

(Tons/hectare)

	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94
<b>Burma</b>											
Corn	1.49	1.32	1.50	1.59	1.40	1.55	1.58	1.51	1.54	1.52	1.56
Millet	0.47	0.47	0.47	0.47	0.47	0.72	0.66	0.78	0.81	0.74	0.74
Rice, Milled	1.54	1.54	1.53	1.52	1.53	1.66	1.71	1.66	1.64	1.60	1.66
Wheat	1.50	1.57	1.58	1.61	1.24	1.08	1.02	1.04	1.04	1.04	1.04
<b>TOTAL</b>	<b>1.50</b>	<b>1.49</b>	<b>1.49</b>	<b>1.49</b>	<b>1.48</b>	<b>1.61</b>	<b>1.66</b>	<b>1.61</b>	<b>1.59</b>	<b>1.56</b>	<b>1.62</b>
<b>Cambodia</b>											
Corn	1.14	1.14	1.14	1.14	1.14	1.14	2.20	2.20	2.27	2.00	2.00
Rice, Milled	0.80	0.75	0.73	0.86	0.82	0.93	1.03	0.76	0.90	0.81	0.75
<b>TOTAL</b>	<b>0.80</b>	<b>0.76</b>	<b>0.74</b>	<b>0.86</b>	<b>0.82</b>	<b>0.94</b>	<b>1.04</b>	<b>0.78</b>	<b>0.92</b>	<b>0.83</b>	<b>0.77</b>
<b>Indonesia</b>											
Corn	1.69	1.71	1.77	1.64	1.79	1.82	1.85	1.85	1.86	1.85	1.85
Rice, Milled	2.62	2.66	2.68	2.68	2.76	2.81	2.76	2.80	2.82	2.82	2.87
<b>TOTAL</b>	<b>2.39</b>	<b>2.43</b>	<b>2.50</b>	<b>2.43</b>	<b>2.55</b>	<b>2.58</b>	<b>2.58</b>	<b>2.60</b>	<b>2.61</b>	<b>2.61</b>	<b>2.65</b>
<b>Laos</b>											
Rice, Milled	1.00	1.15	1.20	1.22	1.08	1.00	1.21	1.05	1.00	1.13	1.07
<b>TOTAL</b>	<b>1.00</b>	<b>1.15</b>	<b>1.20</b>	<b>1.22</b>	<b>1.08</b>	<b>1.00</b>	<b>1.21</b>	<b>1.05</b>	<b>1.00</b>	<b>1.13</b>	<b>1.07</b>
<b>Malaysia</b>											
Corn	1.57	1.60	1.67	1.73	1.76	1.78	1.79	1.75	1.75	1.71	1.75
Rice, Milled	1.77	1.61	1.94	1.81	1.74	1.75	1.87	1.97	1.77	1.80	1.81
<b>TOTAL</b>	<b>1.76</b>	<b>1.61</b>	<b>1.93</b>	<b>1.81</b>	<b>1.74</b>	<b>1.75</b>	<b>1.87</b>	<b>1.96</b>	<b>1.77</b>	<b>1.80</b>	<b>1.81</b>
<b>Philippines</b>											
Corn	1.02	1.04	1.11	1.13	1.18	1.21	1.22	1.32	1.29	1.43	1.45
Rice, Milled	1.62	1.65	1.74	1.71	1.72	1.72	1.68	1.87	1.81	1.91	1.88
<b>TOTAL</b>	<b>1.32</b>	<b>1.34</b>	<b>1.42</b>	<b>1.41</b>	<b>1.43</b>	<b>1.45</b>	<b>1.45</b>	<b>1.58</b>	<b>1.54</b>	<b>1.66</b>	<b>1.67</b>
<b>Thailand</b>											
Corn	2.16	2.23	2.36	2.37	1.56	2.63	2.93	2.81	2.67	2.76	2.64
Rice, Milled	1.34	1.36	1.36	1.29	1.32	1.42	1.33	1.29	1.49	1.43	1.40
Sorghum	1.30	1.32	1.33	1.26	1.03	1.35	1.44	1.42	1.07	1.07	1.20
<b>TOTAL</b>	<b>1.47</b>	<b>1.50</b>	<b>1.54</b>	<b>1.46</b>	<b>1.35</b>	<b>1.58</b>	<b>1.53</b>	<b>1.49</b>	<b>1.63</b>	<b>1.58</b>	<b>1.54</b>
<b>Vietnam</b>											
Corn	1.24	1.37	1.31	1.31	1.34	1.59	1.65	1.68	1.75	1.60	1.60
Rice, Milled	1.77	1.82	1.78	1.71	2.01	2.01	2.11	1.98	2.22	2.18	2.25
<b>TOTAL</b>	<b>1.73</b>	<b>1.79</b>	<b>1.75</b>	<b>1.68</b>	<b>1.96</b>	<b>1.98</b>	<b>2.07</b>	<b>1.96</b>	<b>2.19</b>	<b>2.14</b>	<b>2.20</b>
<b>SE ASIA</b>											
Corn	1.51	1.55	1.63	1.57	1.45	1.69	1.75	1.75	1.74	1.80	1.78
Millet	0.47	0.47	0.47	0.47	0.47	0.72	0.66	0.78	0.81	0.74	0.74
Rice, Milled	1.77	1.83	1.82	1.79	1.87	1.92	1.93	1.92	2.01	2.00	2.02
Sorghum	1.30	1.32	1.33	1.26	1.03	1.35	1.44	1.42	1.07	1.07	1.20
Wheat	1.50	1.57	1.58	1.61	1.24	1.08	1.02	1.04	1.04	1.04	1.04
<b>TOTAL</b>	<b>1.71</b>	<b>1.76</b>	<b>1.78</b>	<b>1.74</b>	<b>1.78</b>	<b>1.87</b>	<b>1.89</b>	<b>1.88</b>	<b>1.95</b>	<b>1.96</b>	<b>1.97</b>



TABLE 23

# SOUTHEAST ASIA GRAIN PRODUCTION

(1,000 Metric tons)

	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94
<b>Burma</b>											
Corn	309	303	299	285	224	188	194	186	191	208	179
Millet	85	85	85	85	85	113	116	138	145	130	130
Rice, Milled	7,200	7,075	7,130	7,080	6,840	7,500	8,100	7,943	7,424	7,772	8,750
Wheat	214	206	190	192	157	130	124	135	140	140	140
<b>TOTAL</b>	<b>7,808</b>	<b>7,669</b>	<b>7,704</b>	<b>7,642</b>	<b>7,306</b>	<b>7,931</b>	<b>8,534</b>	<b>8,402</b>	<b>7,900</b>	<b>8,250</b>	<b>9,199</b>
<b>Cambodia</b>											
Corn	40	40	40	40	40	40	55	55	50	50	50
Rice, Milled	1,285	793	1,127	1,314	1,307	1,556	1,682	1,323	1,510	1,300	1,200
<b>TOTAL</b>	<b>1,325</b>	<b>833</b>	<b>1,167</b>	<b>1,354</b>	<b>1,347</b>	<b>1,596</b>	<b>1,737</b>	<b>1,378</b>	<b>1,560</b>	<b>1,350</b>	<b>1,250</b>
<b>Indonesia</b>											
Corn	5,087	5,288	4,330	5,000	4,800	5,200	5,000	5,000	5,400	5,650	5,450
Rice, Milled	24,006	25,933	26,542	26,500	27,000	27,500	29,072	29,366	29,042	31,350	31,005
<b>TOTAL</b>	<b>29,093</b>	<b>31,221</b>	<b>30,872</b>	<b>31,500</b>	<b>31,800</b>	<b>32,700</b>	<b>34,072</b>	<b>34,366</b>	<b>34,442</b>	<b>37,000</b>	<b>36,455</b>
<b>Laos</b>											
Rice, Milled	650	780	875	894	732	651	850	900	750	900	750
<b>TOTAL</b>	<b>650</b>	<b>780</b>	<b>875</b>	<b>894</b>	<b>732</b>	<b>651</b>	<b>850</b>	<b>900</b>	<b>750</b>	<b>900</b>	<b>750</b>
<b>Malaysia</b>											
Corn	22	24	25	26	30	32	34	35	35	36	35
Rice, Milled	1,145	1,010	1,258	1,150	1,092	1,148	1,147	1,302	1,150	1,190	1,220
<b>TOTAL</b>	<b>1,167</b>	<b>1,034</b>	<b>1,283</b>	<b>1,176</b>	<b>1,122</b>	<b>1,180</b>	<b>1,181</b>	<b>1,337</b>	<b>1,185</b>	<b>1,226</b>	<b>1,255</b>
<b>Philippines</b>											
Corn	3,346	3,439	3,922	4,016	4,380	4,525	4,412	5,102	4,490	4,751	4,500
Rice, Milled	5,097	5,330	5,913	5,831	5,642	5,996	5,785	6,425	5,936	6,183	6,000
<b>TOTAL</b>	<b>8,443</b>	<b>8,769</b>	<b>9,835</b>	<b>9,847</b>	<b>10,022</b>	<b>10,521</b>	<b>10,197</b>	<b>11,527</b>	<b>10,426</b>	<b>10,934</b>	<b>10,500</b>
<b>Thailand</b>											
Corn	3,950	4,350	5,350	4,309	2,736	4,200	4,100	3,800	3,600	3,400	2,900
Rice, Milled	12,902	13,137	13,374	12,453	12,162	14,034	13,317	11,347	13,464	13,145	12,200
Sorghum	327	374	320	280	210	230	230	270	150	150	180
<b>TOTAL</b>	<b>17,179</b>	<b>17,861</b>	<b>19,044</b>	<b>17,042</b>	<b>15,108</b>	<b>18,464</b>	<b>17,647</b>	<b>15,417</b>	<b>17,214</b>	<b>16,695</b>	<b>15,280</b>
<b>Vietnam</b>											
Corn	467	525	525	550	575	815	843	850	900	800	800
Rice, Milled	10,145	10,633	10,371	9,688	11,502	12,044	12,772	12,420	14,476	14,210	14,388
<b>TOTAL</b>	<b>10,612</b>	<b>11,158</b>	<b>10,896</b>	<b>10,238</b>	<b>12,077</b>	<b>12,859</b>	<b>13,615</b>	<b>13,270</b>	<b>15,376</b>	<b>15,010</b>	<b>15,188</b>
<b>SE ASIA</b>											
Corn	13,221	13,969	14,491	14,226	12,785	15,000	14,638	15,028	14,666	14,895	13,914
Millet	85	85	85	85	85	113	116	138	145	130	130
Rice, Milled	62,430	64,691	66,590	64,910	66,277	70,429	72,725	71,026	73,752	76,050	75,513
Sorghum	327	374	320	280	210	230	230	270	150	150	180
Wheat	214	206	190	192	157	130	124	135	140	140	140
<b>TOTAL</b>	<b>76,277</b>	<b>79,325</b>	<b>81,676</b>	<b>79,693</b>	<b>79,514</b>	<b>85,902</b>	<b>87,833</b>	<b>86,597</b>	<b>88,853</b>	<b>91,365</b>	<b>89,877</b>

April 1994

Production Estimates and Crop Assessment Division, FAS, USDA

## WEST EUROPEAN FORESTRY

The economic recession throughout western Europe during 1993 adversely affected most wood consuming industries and resulted in lower production of wood products in some countries. However, the housing renovation sector helped sustain demand in the construction industry. Following the pattern of the past several years, production of tropical hardwood products continued trending downward in 1993 as pressure from environmental groups further limited the availability of tropical hardwood logs. In contrast, domestic production of softwood and temperate hardwood products increased in several countries when local currency devaluations made imports too costly.

Austria: Total forest area remained stable in 1993 at 3.86 million hectares. This area supported a standing inventory of 19.0 million cubic meters (CUM). Austria's annual felling rate averages between 12.0 and 13.0 million CUM and, in 1993, the timber harvest hit the

midpoint of 12.5 million CUM, a two-percent increase from 1992. Since Austria's resource base consists primarily of spruce trees, softwood log fellings rose 9 percent, to 8.1 million CUM.

The continuing economic recession throughout Europe hit Austria's milling industry hard in 1993. Export demand dropped off sharply and the recovery anticipated in the domestic construction sector failed to materialize. As a consequence, softwood lumber production declined 9 percent, to 7.1 million CUM. In contrast, domestic demand for particleboard, particularly for renovation projects, was strong throughout 1993. However, production remained stable at 1.4 million CUM because the domestic market consumed the particleboard that normally would have been exported in years when Austria's export markets were not plagued by economic recession.

### AUSTRIA: FOREST AREA AND PRODUCTION (1,000 Hectares/1,000 Cubic meters)

	<u>1991</u>	<u>1992</u>	<u>1993 1/</u>
AREA	3,860	3,860	3,860
HARVEST	11,492	12,249	12,550
Softwood Logs	7,771	7,962	8,054
Softwood Lumber	7,890	7,778	7,104
Particleboard	1,689	1,400	1,400

1/ Preliminary.

Belgium/Luxembourg: The total forest area for Belgium and Luxembourg (BLEU) remained unchanged in 1993 at 700,000 hectares. Similarly, there has been only minimal growth in the annual timber harvest since 1990 when a severe blowdown netted excessively high stocks and the eastern European countries became noteworthy competitors.

Moderate growth in construction activities during 1993 precipitated a 3-percent increase in softwood lumber production, to 930,000 CUM,

and stable output of softwood plywood and particleboard. Demand from the furniture manufacturing sector was approximately the same as it has been for the past five years. Hence, production of temperate hardwood logs, tropical hardwood lumber, temperate hardwood veneer, and tropical hardwood veneer was unchanged from 1992. The only product to lose ground in 1993 was temperate hardwood lumber which declined 2 percent, to 470,000 CUM, because production costs increased, but sector investment declined.



BELGIUM/LUXEMBOURG: FOREST AREA AND PRODUCTION  
(1,000 Hectares/1,000 Cubic meters)

	<u>1991</u>	<u>1992</u>	<u>1993 1/</u>
AREA	700	700	700
HARVEST	3,970	3,870	3,900
Temperate Hardwood Logs	720	720	720
Softwood Lumber	930	900	930
Temperate Hardwood Lumber	477	478	470
Tropical Hardwood Lumber	17	14	14
Temperate Hardwood Veneer	40	40	40
Tropical Hardwood Veneer	5	5	5
Softwood Plywood	22	22	22
Particleboard	2,300	2,350	2,350

1/ Preliminary.

Denmark: Since 1976, when the last official census of forest area was taken, Denmark's total forested area has been expanding gradually, reaching an estimated 417,000 hectares in 1993. However, the industry had little use for additional timber supplies in 1993, as stocks of construction-grade building materials were already excessively high.

Consequently, the 1993 timber harvest dropped to a record low 1.8 million CUM and softwood plywood production dropped 17 percent, to 10,000 CUM. However, particleboard production increased marginally in 1993, to 320,000 CUM, because of increased demand from the furniture industry.

DENMARK: FOREST AREA AND PRODUCTION  
(1,000 Hectares/1,000 Cubic meters)

	<u>1991</u>	<u>1992</u>	<u>1993 1/</u>
AREA	413	416	417
HARVEST	2,018	1,915	1,800
Softwood Plywood	11	12	10
Particleboard	337	316	320

1/ Preliminary.

France: Forest area has remained relatively stable for the past ten years at about 15.2 million hectares. Activity in the wood industry slowed in 1993 in response to recession in the French economy and fewer housing starts. A strong reduction in demand in the domestic and most export markets precipitated a 3-percent decline in the 1993 timber harvest. Production

of most wood products was down in 1993 due to declining domestic consumption, limited construction activity, and sluggish demand from other European countries. However, plywood output rose 2 percent, to 490,000 CUM, nearly half of which was shipped to Germany for new construction projects in the eastern part of the country.

#### FRANCE: FOREST AREA AND PRODUCTION

(1,000 Hectares/1,000 Cubic meters)

	<u>1991</u>	<u>1992</u>	<u>1993 1/</u>
AREA	15,152	15,160	15,170
HARVEST	36,456	35,700	34,500
Softwood Logs	13,127	12,900	12,000
Temperate Hardwood Logs	9,724	9,500	9,000
Softwood Lumber	6,767	6,700	6,600
Temperate Hardwood Lumber	3,166	3,000	2,780
Tropical Hardwood Lumber	451	460	415
Total Plywood	470	482	490
Particleboard	2,638	2,668	2,610

1/ Preliminary.

Germany: Forest area in 1993 was approximately 10.4 million hectares, or 29 percent of total German land area. The 1993 timber harvest was up marginally, to 28.0 million CUM. The German roundwood market is still negatively influenced by the trailing effects of the devastating winter storms in February 1990, when 74.0 million CUM of usable timber were blown down and/or destroyed. At that time, harvesting restrictions were imposed and approximately 12.5 million CUM of the storm-damaged wood were salvaged and put into wet storage in order to avoid a total collapse of the domestic timber market.

The stockpile was gradually reduced between 1990 and September 1992--when the harvesting restrictions were lifted. By the end of 1993, what remained of the 1990 stockpile -- 4.0 to 5.0 million CUM of softwood logs -- had been taken out of wet storage and entered

into the processing chain. Consequently, 1993 fellings of softwood logs, though up 15 percent, were significantly below Germany's pre-1990 cutting level of 16.0 million CUM. The forecast for 1994 is for softwood log fellings of about 14.0 million CUM.

Softwood lumber production fell 12 percent in 1993, to 12.0 million CUM, mainly due to the weak German economy, slack international demand, and the continuing availability of low-priced wood from the 1990 stockpile. In the board sector, production was up substantially in 1993 mainly due to strong demand from the furniture sector and construction projects in eastern Germany. Particleboard production climbed to a record 6.9 million CUM, up 8 percent from 1992, and medium density fiberboard (MDF) production was up 12 percent, to 380,000 CUM.



GERMANY: FOREST AREA AND PRODUCTION  
(1,000 Hectares/1,000 Cubic meters)

	<u>1991</u>	<u>1992</u>	<u>1993 1/</u>
AREA	10,380	10,380	10,380
HARVEST	31,685	27,759	28,000
Softwood Logs	15,462	11,333	13,000
Temperate Hardwood Logs	3,316	2,722	2,850
Softwood Lumber	13,933	13,693	12,000
Temperate Hardwood Lumber	1,723	1,630	1,300
Temperate Hardwood Veneer	n/a	419	410
Total Plywood	n/a	414	420
Hardboard	180	200	220
Medium Density Fiberboard	310	340	380
Particleboard	6,300	6,400	6,900

1/ Preliminary.

Italy: The slow, but steady expansion of forest area continued in 1993, even though numerous fires destroyed over 70,000 hectares during the year. Italy's area expansion has been slow because the annual growth rate is estimated at just over 3.0 CUM per hectare. This rate is higher than past estimates, but well below the European average.

The 1993 roundwood harvest totaled 9.7 million CUM, up marginally from 1992, due to a 1-

percent increase in fellings of softwood and temperate hardwood logs. However, the wood product sector, which relies heavily on imported raw material because of the limited domestic supply, fared rather poorly in 1993 as the devaluation of the lira made imports more costly. Only particleboard, which is the most widely used wood-based panel product in Italy, recorded a small production increase in 1993. Output rose 2 percent, to nearly 2.4 million CUM.

ITALY: FOREST AREA AND PRODUCTION

(1,000 Hectares/1,000 Cubic meters)

	<u>1991</u>	<u>1992</u>	<u>1993 1/</u>
AREA	8,675	8,680	8,685
HARVEST	9,500	9,600	9,700
Softwood Logs	649	597	600
Temperate Hardwood Logs	2,050	2,070	2,100
Softwood Lumber	1,000	800	800
Temperate Hardwood Lumber	750	730	720
Tropical Hardwood Lumber	110	100	100
Temperate Hardwood Plywood	450	450	430
Medium Density Fiberboard	550	550	550
Particleboard	3,120	2,300	2,350

1/ Preliminary.

Netherlands: The Netherlands is one of the least wooded countries in Europe. As of 1993, total forest area was only about 330,000 hectares, less than 10 percent of the country's total land area. However, the Government intends to increase forest area by 75,000 hectares over the next 25 years via government subsidized forestry plantings.

Dutch production of forest products currently meets only 8 percent of domestic requirements. The Government's plan is to raise the self-sufficiency rate to 17 percent by the year 2000 and 25 percent by 2025. Currently, the Netherlands has a resource base of 49.0 million CUM. In 1993, 1.4 million CUM were harvested, a 23-percent increase over 1992. Lumber is the primary wood product manufactured in the Netherlands. Softwood lumber production rose 3 percent in 1993, to

160,000 CUM, mainly because of an increase in housing starts in the free, non-subsidized sector and strong demand from the building maintenance and repair sector. In contrast, temperate hardwood lumber production continued trending downward in 1993 due to weak demand by the furniture industry, which has come to favor medium density fiberboard over hardwood lumber. Level demand in the interior construction sector held tropical hardwood lumber output steady in 1993, at 70,000 CUM.

In the board sector, production of temperate hardwood veneer and particleboard have remained constant for the past five years. During this time, any increase in demand from the furniture or interior construction sectors has been met through additional imports.

NETHERLANDS: FOREST AREA AND PRODUCTION

(1,000 Hectares/1,000 Cubic meters)

	<u>1991</u>	<u>1992</u>	<u>1993</u> <u>1/</u>
AREA	330	330	330
HARVEST	1,416	1,153	1,420
Softwood Lumber	130	155	160
Temperate Hardwood Lumber	251	212	194
Tropical Hardwood Lumber	70	70	70
Temperate Hardwood Veneer	4	4	4
Particleboard	40	40	40

1/ Preliminary.

Spain: Total forested area was 11.1 million hectares in 1993, down marginally from 1992, mainly due to fire damage. Spain's 1993 timber harvest dropped to 12.0 million CUM, primarily because of a sharp reduction in softwood log fellings.

Spain's economic recession adversely affected almost all of its wood-consuming industries in 1993. Hardest hit were the housing construction and interior design sectors which usually are large consumers of lumber and plywood, although not in 1993. Similarly, a major downturn in domestic furniture sales

in a 12-percent decline in temperate hardwood veneer production and a 17-percent drop in hardboard output.

Panel products are Spain's leading wood product export, particularly medium density fiberboard. Additional plant capacity installed in 1993 boosted MDF production 7 percent, to 300,000 CUM, nearly three-fourth's of which was exported. Particleboard production recovered slightly, to 1.7 million CUM, as a result of continued strong demand by the renovation/remodeling sector.



**SPAIN: FOREST AREA AND PRODUCTION**  
(1,000 Hectares/1,000 Cubic meters)

	<u>1991</u>	<u>1992</u>	<u>1993 1/</u>
AREA	11,200	11,150	11,100
HARVEST	14,300	12,600	12,000
Softwood Logs	6,600	5,200	4,800
Temperate Hardwood Logs	4,000	3,200	3,100
Softwood Lumber	2,600	1,700	1,500
Temperate Hardwood Lumber	730	630	630
Tropical Hardwood Lumber	150	150	115
Temperate Hardwood Veneer	40	40	35
Softwood Plywood	25	20	20
Hardboard	165	120	100
Medium Density Fiberboard	240	280	300
Particleboard	1,795	1,680	1,700

1/ Preliminary.

United Kingdom: Roundwood production from the United Kingdom's 2.2 million hectares of domestic forest area increased 10 percent in 1993, to 7.3 million CUM, as more stands reached maturity. Additionally, economic recovery in 1993 was accompanied by an improvement in housing starts and renovation projects that subsequently led to an upturn in the production of most wood products.

The devaluation of the sterling in the fall of 1992 boosted the cost of importing lumber and panel products in 1993. Consequently, domestic production of softwood lumber rose 2 percent, to nearly 2.0 million CUM, and temperate hardwood lumber production rose 35 percent, to 230,000 CUM. Additional mill capacity more than doubled MDF production, to 325,000 CUM. Particleboard production rose 4

percent, to a record 1.8 million CUM, due to increased demand from the furniture and construction industries.

Continuing pressure from environmental groups to conserve the world's tropical rain forests has caused a steady decline in U.K. imports of tropical hardwood logs. Since approximately two-thirds of the tropical logs imported are sawn into lumber, output of tropical hardwood lumber has remained fairly stable for the past few years at 9,000 to 10,000 CUM. Producers of tropical hardwood plywood were the ones who had to cut mill capacity for lack of raw material. By 1993, plywood production had plummeted to a record low 5,000 CUM and former consumers of tropical plywood had gravitated toward other wood products, mainly medium density fiberboard.

UNITED KINGDOM: FOREST AREA AND PRODUCTION  
(1,000 Cubic meters)

	<u>1991</u>	<u>1992</u>	<u>1993</u> <u>1/</u>
HARVEST	6,669	6,668	7,310
Softwood Lumber	1,893	1,916	1,955
Temperate Hardwood Lumber	338	171	230
Tropical Hardwood Lumber	9	10	10
Tropical Hardwood Plywood	14	7	5
Medium Density Fiberboard	148	156	325
Particleboard	1,569	1,737	1,800

1/ Preliminary.

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CHINESE PRODUCTION OF GRAINS, OILSEEDS, AND COTTON, BY PROVINCE

The following tables present Chinese provincial-level data on area, yield, and production for grains, oilseeds, and cotton as reported by the Chinese State Statistical Bureau (SSB). The U.S. Department of Agriculture (USDA) does not maintain official estimates on a state/province level for foreign countries. USDA country estimates are based on U.S. agricultural attache reports, satellite imagery analysis, weather analysis, official country estimates, and Washington based analysis, therefore the totals as reported by SSB may not equal the those reported by the USDA. This information is provided to enable readers to evaluate trends in the data series and to analyze the impact of weather on crop yields during the historical period.

TABLE 24

## China Wheat Area by Province

(1,000 hectares)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	197	188	184	181	187	195	191	185	183	186	185	188	192	192
Tianjin	213	195	168	141	155	162	150	144	140	141	138	140	146	142
Hebei	2,844	2,760	2,518	2,243	2,346	2,373	2,352	2,492	2,350	2,421	2,453	2,508	2,528	2,542
Shanxi	1,057	995	944	928	947	966	1,013	1,047	1,010	996	1,014	1,016	1,027	1,034
Nei Monggol	952	957	903	878	911	932	927	937	921	974	1,008	1,154	1,192	1,334
Liaoning	50	41	35	30	21	15	12	21	27	34	55	114	147	166
Jilin	168	138	124	105	81	81	71	50	37	33	50	60	71	81
Heilongjiang	1,859	2,105	2,190	1,904	2,096	1,980	2,038	1,969	1,587	1,239	1,682	1,781	1,737	1,615
Shanghai	43	51	52	43	37	36	57	73	77	70	70	77	84	78
Jiangsu	1,496	1,549	1,699	1,867	2,014	2,236	2,170	2,266	2,218	2,247	2,354	2,399	2,365	2,366
Zhejiang	275	326	324	347	368	367	338	302	286	296	303	318	318	302
Anhui	1,950	1,916	1,905	1,968	2,025	2,064	1,955	1,954	1,986	2,017	2,034	2,074	2,063	1,965
Fujian	170	147	129	114	117	96	88	83	101	107	117	124	126	124
Jiangxi	136	121	116	104	98	99	94	87	84	80	78	75	72	73
Shandong	3,721	3,668	3,510	3,343	3,587	3,803	3,952	4,218	4,004	4,052	3,991	4,147	4,197	4,130
Henan	3,888	3,927	3,990	4,120	4,319	4,456	4,568	4,638	4,688	4,675	4,733	4,783	4,797	4,713
Hubei	1,255	1,292	1,274	1,342	1,375	1,384	1,331	1,306	1,349	1,331	1,341	1,352	1,348	1,288
Hunan	267	222	219	216	211	208	186	177	174	176	200	201	223	215
Guangdong	405	236	107	99	98	66	56	41	41	43	73	91	87	76
Guangxi	102	42	24	21	18	15	12	13	13	18	29	25	17	14
Sichuan	2,286	2,165	2,273	2,259	2,250	2,193	2,000	1,995	2,014	2,077	2,149	2,221	2,281	2,296
Guizhou	447	335	273	257	259	260	234	260	268	318	382	441	485	508
Yunnan	664	589	528	468	467	458	443	429	434	483	528	570	583	590
Xizang	66	59	45	43	41	45	39	36	38	40	39	42	43	44
Shaanxi	1,597	1,590	1,547	1,616	1,678	1,689	1,693	1,698	1,698	1,696	1,687	1,691	1,688	1,660
Gansu	1,401	1,384	1,393	1,463	1,508	1,519	1,486	1,486	1,428	1,384	1,446	1,458	1,450	1,385
Qinghai	202	201	206	224	224	220	201	201	201	205	210	213	218	221
Ningxia	299	291	272	289	304	308	282	291	247	289	300	308	314	217
Xinjiang	1,347	1,355	1,356	1,329	1,305	1,350	1,278	1,218	1,193	1,157	1,190	1,180	1,150	1,127
Hainan	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Northeast	2,078	2,284	2,349	2,039	2,198	2,076	2,121	2,039	1,652	1,306	1,787	1,955	1,955	1,862
North	11,920	11,733	11,313	10,956	11,542	11,956	12,226	12,725	12,375	12,471	12,514	12,782	12,887	12,753
Northwest	5,798	5,778	5,676	5,800	5,929	6,019	5,868	5,831	5,688	5,706	5,841	6,004	6,012	5,944
East	3,764	3,842	3,980	4,224	4,444	4,703	4,520	4,595	4,567	4,630	4,761	4,868	4,830	4,711
Central	1,658	1,635	1,609	1,662	1,685	1,691	1,611	1,569	1,607	1,587	1,619	1,628	1,642	1,576
South	676	425	261	234	234	177	155	137	155	168	219	240	230	214
Southwest	3,463	3,147	3,119	3,024	3,018	2,955	2,716	2,721	2,755	2,917	3,098	3,274	3,391	3,438
Total Provinces	29,357	28,844	28,307	27,941	29,050	29,576	29,218	29,616	28,798	28,785	29,841	30,753	30,948	30,498

Source: Chinese State Statistical Bureau  
April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA



TABLE 25

## China Wheat Yield by Province

(kilograms per hectare)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	3,122	2,154	3,043	2,624	3,529	3,744	3,827	3,838	4,126	4,516	4,951	5,399	5,651	5,802
Tianjin	2,300	1,410	1,250	1,348	2,129	2,037	2,900	3,201	3,393	3,518	4,406	4,429	4,243	4,366
Hebei	2,229	1,391	1,658	1,995	2,960	3,017	3,165	3,318	3,079	3,272	3,725	3,699	3,562	3,611
Shanxi	1,731	1,191	1,711	2,188	2,592	3,002	2,913	2,917	2,317	2,357	3,101	3,143	3,023	2,655
Nei Monggol	1,140	862	1,107	1,441	1,328	1,545	1,602	1,396	1,365	1,678	1,868	2,268	2,350	2,476
Liaoning	1,700	1,341	1,571	1,667	2,143	1,667	2,333	1,905	2,111	2,441	2,782	3,947	3,370	3,946
Jilin	1,042	1,196	1,250	1,476	1,790	1,914	1,451	1,340	1,703	1,485	1,720	2,133	2,031	2,728
Heilongjiang	1,794	1,874	1,434	1,460	2,152	1,932	1,849	1,808	1,889	1,994	2,184	2,666	2,195	2,630
Shanghai	4,419	4,020	3,365	4,186	2,973	3,889	3,825	4,137	3,597	3,871	3,457	3,779	3,640	3,949
Jiangsu	3,573	3,280	3,096	3,800	3,779	4,043	3,822	4,141	4,055	3,981	3,594	3,850	3,584	4,252
Zhejiang	2,709	2,439	2,299	2,795	2,351	2,766	2,675	2,606	2,241	2,581	2,422	2,742	2,264	2,652
Anhui	2,000	1,777	2,286	2,815	2,827	3,132	3,099	3,360	3,615	3,359	2,963	2,883	1,529	3,113
Fujian	1,265	1,531	1,589	2,061	812	2,031	1,977	1,843	2,089	2,121	2,368	2,234	2,419	1,782
Jiangxi	1,029	744	819	1,106	765	1,010	1,106	1,057	905	988	910	1,080	1,048	1,151
Shandong	2,572	2,088	2,479	2,465	3,345	3,362	3,786	3,704	3,682	3,432	3,960	3,887	4,501	4,548
Henan	2,492	2,268	2,716	2,961	3,370	3,710	3,345	3,381	3,468	3,253	3,629	3,429	3,240	3,502
Hubei	2,259	2,063	1,951	2,668	2,440	2,731	2,595	2,921	3,122	3,017	2,800	2,893	2,885	2,891
Hunan	1,311	1,104	1,210	1,505	1,445	1,611	1,570	1,678	1,626	1,665	1,215	1,438	1,575	1,400
Guangdong	630	1,017	1,308	1,667	663	1,894	1,411	1,659	1,878	2,047	2,342	2,407	2,626	1,921
Guangxi	588	595	833	952	833	1,000	833	923	923	1,056	1,000	880	1,008	1,143
Sichuan	2,259	2,178	2,261	2,815	3,218	3,206	3,128	3,259	3,269	2,738	2,899	3,086	3,131	3,128
Guizhou	951	1,045	1,172	1,167	1,236	1,385	1,261	1,238	1,175	1,604	1,257	1,628	1,781	1,921
Yunan	1,062	1,333	1,392	1,442	1,852	1,801	1,397	1,014	1,719	1,706	1,523	1,800	1,979	2,153
Xizang	2,348	3,051	2,889	2,558	2,561	3,111	3,026	2,639	2,816	2,775	3,436	3,905	4,223	4,455
Shaanxi	2,251	1,447	2,288	2,605	2,649	2,661	2,500	2,615	2,460	2,397	2,922	2,742	2,640	2,520
Gansu	1,660	1,734	1,665	2,122	2,212	2,248	2,118	2,225	2,115	2,070	2,497	2,505	2,547	2,360
Qinghai	2,376	2,811	2,427	2,813	2,768	3,068	3,134	3,030	3,363	3,351	3,362	3,455	3,534	3,394
Ningxia	1,405	1,701	1,985	2,128	2,401	2,435	2,078	2,416	1,874	2,197	2,397	2,532	2,597	2,300
Xinjiang	1,566	1,572	1,641	1,753	2,034	2,248	2,461	2,777	2,965	3,119	3,074	3,319	3,353	3,645
Hainan	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Northeast	1,730	1,824	1,426	1,464	2,138	1,929	1,838	1,798	1,887	1,992	2,189	2,724	2,277	2,752
North	2,394	1,898	2,307	2,520	3,201	3,382	3,419	3,442	3,378	3,265	3,739	3,648	3,744	3,838
Northwest	1,727	1,508	1,784	2,096	2,192	2,294	2,254	2,358	2,308	2,365	2,655	2,721	2,727	2,710
East	2,705	2,469	2,647	3,263	3,220	3,542	3,424	3,708	3,743	3,619	3,248	3,365	2,620	3,670
Central	2,005	1,835	1,768	2,419	2,217	2,493	2,390	2,679	2,844	2,765	2,513	2,630	2,627	2,607
South	932	1,153	1,398	1,795	748	1,893	1,697	1,701	1,935	1,988	2,178	2,158	2,394	1,790
Southwest	1,863	1,916	2,028	2,462	2,826	2,827	2,683	2,702	2,814	2,445	2,469	2,676	2,754	2,800
Total Provinces	2,137	1,878	2,107	2,449	2,802	2,969	2,937	3,040	3,048	2,968	3,145	3,194	3,100	3,331

Source: Chinese State Statistical Bureau  
April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA

TABLE 26

## China Wheat Production by Province

(1,000 metric tons)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	615	405	560	475	660	730	731	710	755	840	916	1,015	1,085	1,114
Tianjin	490	275	210	190	330	330	435	461	475	496	608	620	620	620
Hebei	6,340	3,840	4,175	4,475	6,945	7,160	7,443	8,268	7,235	7,922	9,138	9,277	9,004	9,179
Shanxi	1,830	1,185	1,615	2,030	2,455	2,900	2,951	3,054	2,340	2,348	3,144	3,193	3,103	2,745
Nei Monggol	1,085	825	1,000	1,265	1,210	1,440	1,485	1,308	1,257	1,634	1,883	2,617	2,802	3,303
Liaoning	85	55	55	50	45	25	28	40	57	83	153	450	496	655
Jilin	175	165	155	155	145	155	103	67	63	49	86	128	145	221
Heilongjiang	3,335	3,945	3,140	2,780	4,510	3,825	3,768	3,559	2,998	2,470	3,673	4,748	3,811	4,248
Shanghai	190	205	175	180	110	140	218	302	277	271	242	291	305	308
Jiangsu	5,345	5,080	5,260	7,095	7,610	9,040	8,294	9,383	8,995	8,946	8,461	9,237	8,475	10,061
Zhejiang	745	795	745	970	865	1,015	904	787	641	764	734	872	721	801
Anhui	3,900	3,405	4,355	5,540	5,725	6,465	6,059	6,566	7,179	6,775	6,027	5,980	3,154	6,118
Fujian	215	225	205	235	95	195	174	153	211	227	277	277	305	221
Jiangxi	140	90	95	115	75	100	104	92	76	79	71	81	75	84
Shandong	9,570	7,660	8,700	8,240	12,000	12,785	14,961	15,624	14,741	13,908	15,806	16,121	18,894	18,783
Henan	9,690	8,905	10,835	12,200	14,555	16,530	15,282	15,679	16,260	15,210	17,176	16,399	15,543	16,507
Hubei	2,835	2,665	2,485	3,580	3,355	3,780	3,454	3,815	4,211	4,016	3,755	3,911	3,887	3,723
Hunan	350	245	265	325	305	335	292	297	283	293	243	289	351	301
Guangdong	255	240	140	165	65	125	79	68	77	88	171	219	229	146
Guangxi	60	25	20	20	15	15	10	12	12	19	29	22	17	16
Sichuan	5,165	4,715	5,140	6,360	7,240	7,030	6,256	6,501	6,584	5,687	6,230	6,853	7,140	7,183
Guizhou	425	350	320	300	320	360	295	322	315	510	480	718	863	976
Yunan	705	785	735	675	865	825	619	435	746	824	804	1,026	1,153	1,270
Xizang	155	180	130	110	105	140	118	95	107	111	134	164	183	196
Shaanxi	3,595	2,300	3,540	4,210	4,445	4,495	4,233	4,441	4,177	4,066	4,930	4,637	4,457	4,183
Gansu	2,325	2,400	2,320	3,105	3,335	3,415	3,148	3,307	3,020	2,865	3,610	3,653	3,694	3,268
Qinghai	480	565	500	630	620	675	630	609	676	687	706	736	769	750
Ningxia	420	495	540	615	730	750	586	703	463	635	719	780	816	499
Xinjiang	2,110	2,130	2,225	2,330	2,655	3,035	3,145	3,382	3,537	3,609	3,658	3,916	3,856	4,108
Hainan	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Northeast	3,595	4,165	3,350	2,985	4,700	4,005	3,899	3,666	3,118	2,602	3,912	5,326	4,452	5,124
North	28,535	22,270	26,095	27,610	36,945	40,435	41,803	43,796	41,806	40,724	46,788	46,625	48,249	48,948
Northwest	10,015	8,715	10,125	12,155	12,995	13,810	13,227	13,750	13,130	13,496	15,506	16,339	16,394	16,111
East	10,180	9,485	10,535	13,785	14,310	16,660	15,475	17,038	17,092	16,756	15,464	16,380	12,655	17,288
Central	3,325	3,000	2,845	4,020	3,735	4,215	3,850	4,204	4,570	4,388	4,069	4,281	4,313	4,108
South	630	490	365	420	175	335	263	233	300	334	477	518	551	383
Southwest	6,450	6,030	6,325	7,445	8,530	8,355	7,288	7,353	7,752	7,132	7,648	8,761	9,339	9,625
Total Provinces	62,730	54,155	59,640	68,420	81,390	87,815	85,805	90,040	87,768	85,432	93,864	98,229	95,953	101,587

Source: Chinese State Statistical Bureau  
April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA



TABLE 27

## China Corn Area by Province

(1,000 hectares)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	182	197	198	197	201	206	217	216	223	222	219	224	223	224
Tianjin	158	169	181	189	177	157	136	147	153	146	152	161	152	151
Hebei	2,306	2,341	2,285	2,073	2,002	1,817	1,749	1,900	1,983	1,945	1,995	2,041	2,056	1,987
Shanxi	764	742	646	594	583	607	497	567	618	576	606	637	638	638
Nei Monggol	670	653	592	505	494	464	434	588	660	669	696	774	811	775
Liaoning	1,392	1,416	1,268	1,156	1,220	1,231	1,198	1,258	1,341	1,318	1,313	1,366	1,372	1,384
Jilin	1,596	1,682	1,551	1,605	1,715	1,855	1,680	1,990	2,122	1,987	1,983	2,219	2,280	2,234
Heilongjiang	1,961	1,884	1,577	1,363	1,642	1,920	1,577	1,689	1,976	1,827	1,903	2,169	2,230	2,166
Shanghai	13	10	6	7	6	5	6	10	10	8	9	10	10	8
Jiangsu	410	386	445	483	457	431	460	483	496	475	501	461	426	421
Zhejiang	98	66	65	63	52	47	45	42	41	43	46	48	48	47
Anhui	198	164	149	123	132	175	224	246	291	288	334	415	429	436
Fujian	2	2	2	1	1	2	2	3	15	14	19	19	19	23
Jiangxi	9	8	7	7	7	8	7	8	8	7	8	12	32	28
Shandong	2,136	2,143	2,201	2,167	2,192	2,070	2,088	2,244	2,315	2,324	2,398	2,405	2,403	2,346
Henan	1,698	1,680	1,697	1,598	1,768	1,521	1,664	1,885	1,936	1,834	2,035	2,177	2,088	1,964
Hubei	412	407	416	428	418	411	374	382	394	384	389	386	395	376
Hunan	156	148	132	120	116	116	102	104	113	112	115	122	139	141
Guangdong	45	46	43	42	39	40	39	42	45	49	51	57	58	58
Guangxi	566	535	569	546	521	500	476	478	505	531	533	537	534	516
Sichuan	1,646	1,601	1,790	1,767	1,716	1,667	1,583	1,618	1,650	1,654	1,663	1,712	1,749	1,723
Guizhou	691	718	683	667	672	650	592	618	611	595	599	600	620	603
Yunnan	1,060	1,111	1,087	1,048	1,019	975	920	937	953	945	979	990	978	950
Xizang	--	2	1	2	2	2	2	2	3	2	2	3	3	3
Shaanxi	1,037	1,077	1,007	988	944	951	951	950	1,016	940	996	1,025	1,028	1,000
Gansu	309	318	300	267	241	227	218	233	253	290	289	300	322	320
Qinghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ningxia	21	28	24	20	21	32	35	46	63	75	74	76	79	77
Xinjiang	597	556	503	482	469	450	418	436	420	434	434	442	437	430
Hainan	--	--	--	--	--	--	--	--	--	--	12	14	15	18
Northeast	4,948	4,982	4,396	4,124	4,576	5,006	4,454	4,937	5,439	5,133	5,200	5,754	5,883	5,784
North	7,244	7,273	7,207	6,819	6,922	6,379	6,351	6,959	7,228	7,046	7,405	7,645	7,559	7,310
Northwest	2,634	2,631	2,427	2,261	2,169	2,124	2,057	2,253	2,412	2,407	2,488	2,617	2,677	2,602
East	719	625	665	676	647	658	735	781	837	815	890	934	913	912
Central	577	563	555	555	540	535	483	494	514	503	513	520	566	545
South	613	583	614	590	561	542	517	523	564	593	615	627	627	615
Southwest	3,397	3,431	3,560	3,484	3,409	3,293	3,098	3,175	3,217	3,196	3,243	3,305	3,350	3,279
Total Provinces	20,133	20,395	19,425	18,543	18,824	18,537	17,694	19,124	20,212	19,692	20,354	21,402	21,574	21,044

Source: Chinese State Statistical Bureau

April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA

TABLE 28

## China Corn Yield by Province

(kilograms per hectare)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	3,429	4,509	3,966	4,497	4,161	4,634	4,916	4,994	5,109	5,143	5,161	5,844	6,249	6,272
Tianjin	2,694	3,402	3,008	3,600	2,657	3,591	4,046	4,365	4,552	3,854	4,461	4,596	5,245	5,033
Hebei	2,723	2,832	2,833	3,497	3,450	3,523	3,881	3,612	3,611	3,780	3,686	4,063	4,408	4,199
Shanxi	3,823	3,543	3,764	3,761	3,651	3,869	4,221	3,375	3,525	4,334	4,800	4,794	3,672	4,669
Nei Monggol	2,514	2,129	2,408	2,100	2,897	3,201	3,680	3,277	4,140	4,569	4,200	5,079	5,098	5,618
Liaoning	4,516	4,614	4,591	4,829	6,041	5,813	3,740	4,826	5,007	5,243	3,783	5,843	5,992	6,165
Jilin	3,344	3,015	3,400	3,672	5,487	5,952	4,722	5,108	5,803	6,237	5,080	6,893	6,140	5,938
Heilongjiang	2,963	2,760	2,800	2,406	2,823	3,344	2,612	3,742	3,271	3,245	3,232	4,649	4,518	4,814
Shanghai	4,663	4,138	4,737	5,825	4,261	6,481	6,522	5,861	5,169	6,240	6,641	6,700	5,577	6,875
Jiangsu	3,244	3,185	3,899	4,024	4,168	4,828	4,822	5,006	4,865	5,062	5,537	4,993	4,894	5,211
Zhejiang	2,697	2,365	2,462	2,937	2,593	3,081	2,938	2,614	2,859	2,605	2,489	2,063	2,419	2,936
Anhui	2,294	2,349	2,649	2,242	2,661	2,803	2,934	3,211	3,448	2,160	4,094	3,540	3,703	3,828
Fujian	0	0	0	0	0	0	1,304	1,176	1,514	1,610	1,809	1,737	1,541	1,870
Jiangxi	1,705	1,261	1,429	1,402	1,442	1,261	1,402	1,181	1,422	1,587	1,475	1,917	2,267	3,143
Shandong	3,417	3,853	3,608	3,913	3,751	4,799	4,492	4,530	5,056	4,593	4,687	4,619	5,632	4,905
Henan	2,819	3,172	2,832	2,731	3,563	3,438	3,229	2,318	3,496	3,274	4,149	4,412	4,067	4,107
Hubei	2,669	2,113	2,466	2,535	2,646	3,127	3,081	3,024	2,995	2,428	2,809	3,166	3,044	3,460
Hunan	1,726	1,454	1,589	1,588	1,731	2,061	1,984	2,015	1,962	1,720	1,793	2,008	1,976	2,291
Guangdong	1,457	1,417	1,512	1,680	1,675	1,744	1,795	1,770	1,763	1,623	2,045	2,368	2,618	2,741
Guangxi	1,740	2,074	2,108	2,233	2,055	2,079	1,926	1,872	1,944	1,283	2,291	2,235	2,008	2,362
Sichuan	2,961	3,380	3,319	3,467	3,432	3,750	3,651	3,575	3,159	3,522	3,652	4,176	4,197	3,668
Guizhou	2,567	2,947	2,673	2,899	3,119	3,349	2,662	3,155	3,223	2,590	3,040	2,955	3,686	3,030
Yunnan	2,123	2,368	2,480	2,652	2,640	2,811	2,702	2,751	2,621	2,646	2,991	2,806	3,001	2,853
Xizang	-	3,261	3,947	2,778	4,839	2,885	3,000	2,679	2,100	3,387	3,649	3,000	3,462	3,000
Shaanxi	2,772	2,554	2,010	2,860	3,050	3,292	3,066	2,872	3,199	3,009	3,231	3,257	3,475	3,462
Gansu	2,911	2,797	2,247	2,286	2,859	2,974	3,414	3,390	3,539	3,290	4,263	3,873	4,315	4,938
Qinghai	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ningxia	3,387	3,050	2,679	2,696	3,365	3,564	4,004	3,734	4,614	4,301	4,557	4,947	5,258	6,221
Xinjiang	2,171	2,276	2,444	2,554	2,792	3,088	3,332	3,685	4,169	4,034	4,426	4,552	4,792	4,944
Hainan	-	-	-	-	-	-	-	-	-	-	1,500	1,786	1,850	2,222
Northeast	3,523	3,373	3,528	3,577	4,679	4,917	3,711	4,569	4,687	4,916	4,076	5,798	5,491	5,572
North	3,083	3,343	3,188	3,504	3,591	3,987	3,976	3,597	4,102	4,006	4,288	4,462	4,712	4,523
Northwest	2,591	2,425	2,233	2,556	2,941	3,199	3,303	3,206	3,698	3,701	3,869	4,134	4,335	4,612
East	2,933	2,895	3,487	3,618	3,735	4,179	4,145	4,321	4,278	3,917	4,847	4,215	4,214	4,447
Central	2,399	1,928	2,244	2,316	2,435	2,867	2,825	2,781	2,745	2,259	2,558	2,865	2,738	3,141
South	1,714	2,017	2,061	2,188	2,024	2,048	1,914	1,860	1,918	1,318	2,241	2,222	2,046	2,376
Southwest	2,620	2,961	2,939	3,113	3,135	3,393	3,179	3,249	3,011	3,089	3,340	3,543	3,752	3,314
Total Provinces	2,982	3,069	3,048	3,266	3,623	3,960	3,607	3,705	3,949	3,928	3,951	4,524	4,578	4,533

Source: Chinese State Statistical Bureau

April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA



China Corn Production by Province

(1,000 metric tons)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	625	890	785	885	835	955	1,067	1,079	1,140	1,140	1,131	1,309	1,394	1,405
Tianjin	425	575	545	680	470	565	551	642	697	564	676	740	799	760
Hebei	6,280	6,630	6,475	7,250	6,905	6,400	6,789	6,862	7,162	7,351	7,355	8,292	9,061	8,343
Shanxi	2,920	2,630	2,430	2,235	2,130	2,350	2,098	1,913	2,178	2,495	2,909	3,054	2,342	2,979
Nei Monggol	1,685	1,390	1,425	1,060	1,430	1,485	1,597	1,927	2,733	3,055	2,921	3,931	4,137	4,354
Liaoning	6,285	6,535	5,820	5,580	7,370	7,155	4,481	6,073	6,715	6,910	4,968	7,982	8,223	8,532
Jilin	5,335	5,070	5,275	5,895	9,410	11,040	7,931	10,164	12,316	12,395	10,075	15,296	14,001	13,266
Heilongjiang	5,810	5,200	4,415	3,280	4,635	6,420	4,118	6,320	6,461	5,930	6,152	10,083	10,075	10,428
Shanghai	60	40	30	40	25	35	40	59	51	52	58	67	58	55
Jiangsu	1,330	1,230	1,735	1,945	1,905	2,080	2,216	2,417	2,411	2,404	2,775	2,302	2,087	2,194
Zhejiang	265	155	160	185	135	145	132	111	118	112	115	99	115	138
Anhui	455	385	395	275	350	490	657	790	1,002	623	1,366	1,469	1,587	1,669
Fujian	--	0	--	--	--	--	2	4	22	22	34	33	30	43
Jiangxi	15	10	10	10	10	10	10	10	11	11	12	23	73	88
Shandong	7,300	8,255	7,940	8,480	8,220	9,935	9,377	10,165	11,702	10,672	11,240	11,109	13,532	11,508
Henan	4,785	5,330	4,805	4,365	6,300	5,230	5,373	4,370	6,770	6,003	8,444	9,605	8,491	8,066
Hubei	1,100	860	1,025	1,085	1,105	1,285	1,153	1,156	1,179	933	1,093	1,222	1,203	1,301
Hunan	270	215	210	190	200	240	202	209	221	192	207	245	274	323
Guangdong	65	65	65	70	65	70	70	74	79	79	104	135	151	159
Guangxi	985	1,110	1,200	1,220	1,070	1,040	917	895	981	681	1,222	1,200	1,073	1,219
Sichuan	4,875	5,410	5,940	6,125	5,890	6,250	5,780	5,785	5,211	5,825	6,073	7,150	7,341	6,320
Guizhou	1,775	2,115	1,825	1,935	2,095	2,175	1,577	1,950	1,970	1,540	1,820	1,773	2,286	1,827
Yunnan	2,250	2,630	2,695	2,780	2,690	2,740	2,487	2,578	2,498	2,501	2,928	2,778	2,935	2,710
Xizang	--	5	5	5	10	5	5	5	7	7	9	9	9	9
Shaanxi	2,875	2,750	2,025	2,825	2,880	3,130	2,916	2,729	3,250	2,828	3,217	3,338	3,572	3,462
Gansu	900	890	675	610	690	675	744	790	895	954	1,231	1,162	1,389	1,580
Qinghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ningxia	70	85	65	55	70	115	142	173	291	322	336	376	415	479
Xinjiang	1,295	1,265	1,230	1,230	1,310	1,390	1,394	1,606	1,751	1,750	1,921	2,012	2,092	2,126
Hainan	--	--	--	--	--	--	--	--	--	--	18	25	28	40
Northeast	17,430	16,805	15,510	14,755	21,415	24,615	16,530	22,557	25,492	25,235	21,195	33,361	32,299	32,226
North	22,335	24,310	22,980	23,895	24,860	25,435	25,255	25,031	29,649	28,225	31,755	34,109	35,619	33,061
Northwest	6,825	6,380	5,420	5,780	6,380	6,795	6,793	7,225	8,920	8,909	9,626	10,819	11,605	12,001
East	2,110	1,810	2,320	2,445	2,415	2,750	3,045	3,377	3,582	3,191	4,314	3,937	3,847	4,056
Central	1,385	1,085	1,245	1,285	1,315	1,535	1,365	1,375	1,411	1,136	1,312	1,490	1,550	1,712
South	1,050	1,175	1,265	1,290	1,135	1,110	989	973	1,082	782	1,378	1,393	1,282	1,461
Southwest	8,900	10,160	10,465	10,845	10,685	11,170	9,849	10,318	9,686	9,873	10,830	11,710	12,571	10,866
Total Provinces	60,035	62,600	59,205	60,560	68,205	73,410	63,826	70,856	79,822	77,351	80,410	96,819	98,773	95,383

Source: Chinese State Statistical Bureau

April 1994

Production Estimates & Crop Assessment Div., FAS, USDA

TABLE 30

## China Rice Area by Province

(1,000 hectares)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	50	52	49	41	46	44	43	40	38	36	36	34	35	32
Tianjin	63	64	34	23	24	24	31	35	41	46	49	46	58	56
Hebei	124	145	132	128	127	131	128	123	125	133	146	148	150	149
Shanxi	12	12	9	10	9	9	9	8	7	7	9	9	10	9
Nei Monggol	16	15	16	16	16	18	24	27	28	35	53	79	88	94
Liaoning	374	386	397	406	403	432	480	501	533	554	553	543	548	557
Jilin	261	253	254	260	266	285	324	351	368	380	390	418	433	442
Heilongjiang	206	210	224	239	245	278	390	507	581	553	604	673	747	778
Shanghai	325	305	273	283	299	301	270	285	276	260	192	253	248	235
Jiangsu	2,703	2,677	2,598	2,501	2,520	2,516	2,431	2,422	2,399	2,384	2,420	2,454	2,351	2,447
Zhejiang	2,475	2,514	2,500	2,500	2,508	2,500	2,388	2,355	2,376	2,354	2,380	2,384	2,378	2,318
Anhui	2,195	2,238	2,127	2,112	2,057	2,169	2,140	2,185	2,208	2,184	2,273	2,312	2,250	2,244
Fujian	1,670	1,686	1,651	1,613	1,618	1,587	1,477	1,485	1,494	1,483	1,509	1,512	1,493	1,477
Jiangxi	3,387	3,384	3,363	3,339	3,324	3,327	3,265	3,251	3,269	3,210	3,298	3,293	3,154	2,982
Shandong	172	173	139	100	105	108	112	107	101	88	102	124	148	118
Henan	402	417	395	395	411	446	435	412	414	402	427	440	477	508
Hubei	2,731	2,708	2,590	2,605	2,617	2,621	2,539	2,540	2,558	2,527	2,606	2,636	2,623	2,538
Hunan	4,507	4,412	4,416	4,390	4,419	4,401	4,247	4,328	4,255	4,294	4,354	4,370	4,298	4,188
Guangdong	4,252	4,164	4,059	4,005	4,029	3,934	3,606	3,606	3,554	3,487	3,179	3,176	3,065	2,876
Guangxi	2,830	2,764	2,792	2,773	2,737	2,661	2,471	2,519	2,504	2,463	2,494	2,544	2,475	2,465
Sichuan	3,005	3,062	3,126	3,124	3,159	3,165	3,129	3,112	3,031	3,073	3,113	3,124	3,111	3,119
Guizhou	755	775	770	782	778	780	774	736	721	728	732	741	721	745
Yunnan	1,043	1,028	1,078	1,104	1,107	1,130	1,074	1,049	1,020	1,009	1,008	1,026	1,012	993
Xizang	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Shaanxi	156	163	161	159	161	160	157	156	156	154	158	159	162	161
Gansu	4	4	4	4	4	4	4	4	4	4	4	5	5	6
Qinghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ningxia	48	46	49	50	50	51	50	51	53	55	57	60	61	63
Xinjiang	107	98	89	95	96	96	74	69	77	83	84	84	80	76
Hainan	--	--	--	--	--	--	--	--	--	--	404	414	411	414
Northeast	842	849	875	905	915	994	1,194	1,359	1,482	1,487	1,547	1,634	1,728	1,777
North	822	863	758	697	722	762	758	725	727	713	769	801	878	872
Northwest	331	326	319	323	327	329	308	307	318	331	356	387	396	400
East	7,697	7,733	7,498	7,396	7,384	7,487	7,228	7,247	7,260	7,182	7,264	7,403	7,227	7,244
Central	10,624	10,504	10,369	10,335	10,360	10,349	10,050	10,119	10,081	10,032	10,258	10,299	10,075	9,708
South	8,753	8,615	8,502	8,391	8,384	8,182	7,554	7,610	7,552	7,432	7,586	7,646	7,444	7,232
Southwest	4,804	4,865	4,974	5,010	5,044	5,075	4,977	4,898	4,773	4,810	4,854	4,892	4,845	4,858
Total Provinces	33,873	33,879	33,295	33,071	33,137	33,178	32,070	32,266	32,193	31,987	32,700	33,064	32,590	32,090

Source: Chinese State Statistical Bureau  
April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA



China Rice Yield by Province

(kilograms per hectare)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	3,700	5,651	4,364	5,435	5,853	5,856	5,737	6,100	6,239	6,651	6,585	6,353	6,429	6,594
Tianjin	4,065	4,829	3,684	4,769	4,144	5,704	5,637	6,143	5,887	5,655	5,943	6,130	5,690	7,036
Hebei	5,094	5,714	5,398	5,953	6,513	5,731	6,110	6,146	6,155	6,113	5,817	6,189	5,940	6,409
Shanxi	5,000	5,738	5,851	6,207	7,117	7,065	6,797	6,375	5,455	5,491	6,090	6,000	5,700	6,000
Nei Monggol	2,234	2,691	2,564	2,848	2,429	3,273	3,314	3,074	2,797	3,390	3,684	3,975	4,000	4,404
Liaoning	5,663	6,106	6,267	6,250	7,205	7,658	5,477	6,401	6,323	6,287	5,130	6,799	7,133	7,400
Jilin	3,907	4,255	4,434	5,549	5,690	6,708	5,679	4,989	6,058	5,672	4,762	6,923	7,074	6,855
Heilongjiang	3,489	3,779	2,499	2,967	3,728	4,468	4,180	4,355	3,887	4,304	3,836	4,672	4,612	4,841
Shanghai	5,591	3,825	4,587	5,361	4,941	5,912	5,706	6,126	6,332	6,637	9,466	7,008	7,460	7,094
Jiangsu	4,815	4,392	5,029	5,747	6,368	6,954	6,740	7,030	6,884	6,874	7,357	6,962	7,014	7,063
Zhejiang	5,260	4,678	4,724	5,696	5,202	6,041	5,686	5,811	5,626	5,505	5,593	5,543	6,026	5,607
Anhui	4,051	3,454	4,442	4,941	4,666	5,237	5,435	5,594	5,386	5,309	5,679	5,796	4,604	5,452
Fujian	3,883	3,982	4,125	4,438	4,672	4,606	4,611	4,411	4,792	4,636	5,073	4,836	5,185	4,963
Jiangxi	3,647	3,511	3,618	4,032	4,236	4,488	4,520	4,328	4,616	4,535	4,638	4,821	5,032	4,942
Shandong	3,805	4,289	4,679	5,074	5,667	5,304	5,587	5,888	5,687	1,709	6,302	7,306	6,142	6,619
Henan	4,008	4,270	5,175	4,427	5,308	5,364	5,197	5,007	4,775	4,033	5,690	6,136	5,092	5,486
Hubei	4,631	3,833	4,633	5,196	5,236	5,978	6,191	6,392	6,236	6,284	6,689	6,789	6,138	6,881
Hunan	4,439	4,402	4,525	4,966	5,562	5,491	5,508	5,694	5,674	5,459	5,724	5,648	5,897	5,786
Guangdong	3,627	3,898	3,644	4,356	4,447	4,558	4,330	4,281	4,646	4,535	5,129	5,282	5,389	5,443
Guangxi	3,558	3,643	3,516	4,235	4,413	4,004	3,990	3,917	4,269	3,814	4,541	4,720	4,922	5,042
Sichuan	4,775	5,020	5,244	5,668	6,138	6,427	6,157	6,437	6,531	6,400	6,859	7,034	7,070	6,863
Guizhou	4,317	4,196	3,730	4,478	4,840	5,220	4,191	4,636	4,740	4,423	4,473	4,862	5,753	5,087
Yunnan	3,668	3,770	4,045	4,204	4,128	4,428	4,495	4,194	4,491	4,539	4,639	5,034	5,108	5,047
Xizang	8,333	8,333	7,500	--	--	7,500	5,625	3,000	2,727	3,462	4,091	3,000	3,000	4,000
Shaanxi	5,092	4,645	3,282	5,015	5,253	5,851	5,634	5,974	6,068	5,708	6,356	6,314	6,340	6,186
Gansu	3,750	5,000	4,018	3,947	3,814	3,947	4,576	4,750	5,690	4,500	5,391	4,800	6,200	5,833
Qinghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ningxia	5,237	7,112	7,551	7,848	7,947	8,257	8,414	8,255	8,304	8,360	8,506	9,050	9,180	6,635
Xinjiang	2,281	2,591	2,924	3,438	3,969	3,865	4,109	4,580	4,677	4,702	4,944	5,131	5,763	5,566
Hainan	--	--	--	--	--	--	--	--	--	--	3,220	3,483	3,805	3,860
Northeast	4,586	4,978	4,771	5,181	5,831	6,496	5,109	5,273	5,303	5,393	4,533	5,955	6,028	6,144
North	4,129	4,663	5,012	4,895	5,590	5,478	5,475	5,461	5,286	4,385	5,857	6,335	5,514	5,943
Northwest	4,049	4,292	3,812	4,876	5,132	5,479	5,524	5,769	5,813	5,632	5,966	5,984	6,139	5,715
East	4,773	4,191	4,745	5,485	5,440	6,110	5,967	6,165	5,996	5,941	6,310	6,143	5,954	6,099
Central	4,236	3,968	4,258	4,722	5,055	5,292	5,359	5,430	5,474	5,371	5,620	5,676	5,689	5,813
South	3,653	3,832	3,695	4,332	4,479	4,387	4,274	4,186	4,550	4,316	4,823	4,910	5,105	5,118
Southwest	4,463	4,625	4,750	5,159	5,496	5,797	5,492	5,685	5,824	5,710	6,037	6,285	6,463	6,219
Total Provinces	4,244	4,130	4,324	4,886	5,096	5,373	5,256	5,338	5,418	5,287	5,597	5,726	5,749	5,803

Source: Chinese State Statistical Bureau  
April 1994

Production Estimates & Crop Assessment Div., FAS, USDA

TABLE 32

## China Rice Production by Province

(1,000 metric tons)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	185	295	215	225	270	260	249	244	240	239	234	216	225	211
Tianjin	255	310	125	110	100	135	174	215	239	262	294	282	330	394
Hebei	630	830	710	760	825	750	780	756	771	811	852	916	891	955
Shanxi	60	70	55	60	65	65	58	51	40	41	54	54	57	54
Nei Monggol	35	40	40	45	40	60	78	83	77	120	195	314	352	414
Liaoning	2,120	2,355	2,490	2,535	2,905	3,310	2,630	3,207	3,372	3,481	2,839	3,692	3,909	4,122
Jilin	1,020	1,075	1,125	1,445	1,515	1,910	1,841	1,751	2,230	2,157	1,856	2,894	3,063	3,030
Heilongjiang	720	795	560	710	915	1,240	1,629	2,208	2,257	2,380	2,317	3,144	3,445	3,766
Shanghai	1,815	1,165	1,250	1,515	1,475	1,780	1,539	1,746	1,749	1,726	1,813	1,773	1,850	1,667
Jiangsu	13,015	11,755	13,065	14,375	16,050	17,495	16,385	17,027	16,518	16,390	17,802	17,085	16,489	17,282
Zhejiang	13,020	11,760	11,810	14,240	13,045	15,105	13,578	13,684	13,368	12,957	13,312	13,214	14,330	12,998
Anhui	8,890	7,730	9,450	10,435	9,600	11,360	11,629	12,223	11,892	11,597	12,908	13,401	10,360	12,235
Fujian	6,485	6,715	6,810	7,160	7,560	7,310	6,811	6,550	7,158	6,877	7,657	7,312	7,741	7,330
Jiangxi	12,350	11,880	12,165	13,465	14,080	14,930	14,758	14,069	15,090	14,560	15,296	15,877	15,870	14,736
Shandong	655	740	650	505	595	575	625	630	574	151	642	906	909	781
Henan	1,610	1,780	2,045	1,750	2,180	2,390	2,263	2,063	1,977	1,622	2,428	2,700	2,429	2,787
Hubei	12,645	10,380	12,000	13,535	13,705	15,670	15,717	16,236	15,950	15,882	17,433	17,896	16,101	17,465
Hunan	20,005	19,425	19,985	21,800	24,580	24,165	23,388	24,643	24,142	23,440	24,922	24,682	25,344	24,231
Guangdong	15,420	16,230	14,790	17,445	17,915	17,930	15,614	15,437	16,514	15,810	16,303	16,777	16,516	15,653
Guangxi	10,070	10,070	9,815	11,745	12,080	10,655	9,860	9,866	10,690	9,393	11,324	12,008	12,182	12,429
Sichuan	14,350	15,370	16,390	17,705	19,390	20,340	19,261	20,032	19,797	19,665	21,353	21,974	21,995	21,406
Guizhou	3,260	3,250	2,870	3,500	3,765	4,070	3,243	3,412	3,419	3,220	3,273	3,603	4,148	3,790
Yunnan	3,825	3,875	4,360	4,640	4,570	5,005	4,830	4,400	4,580	4,579	4,675	5,165	5,169	5,012
Xizang	5	5	5	--	--	5	3	3	2	3	3	3	3	4
Shaanxi	795	755	530	795	845	935	883	932	947	881	1,006	1,004	1,027	996
Gansu	15	20	15	15	15	15	18	19	22	18	23	24	31	35
Qinghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ningxia	250	330	370	395	400	420	419	421	439	457	486	543	560	418
Xinjiang	245	255	260	325	380	370	306	316	362	389	414	431	461	423
Hainan	--	--	--	--	--	--	--	--	--	--	1,301	1,442	1,564	1,598
Northeast	3,860	4,225	4,175	4,690	5,335	6,460	6,100	7,166	7,859	8,018	7,012	9,730	10,417	10,918
North	3,395	4,025	3,800	3,410	4,035	4,175	4,149	3,959	3,841	3,126	4,504	5,074	4,841	5,182
Northwest	1,340	1,400	1,215	1,575	1,680	1,800	1,704	1,771	1,847	1,865	2,124	2,316	2,431	2,286
East	36,740	32,410	35,575	40,565	40,170	45,740	43,131	44,680	43,527	42,670	45,835	45,473	43,029	44,182
Central	45,000	41,685	44,150	48,800	52,365	54,765	53,863	54,948	55,182	53,882	57,651	58,455	57,315	56,432
South	31,975	33,015	31,415	36,350	37,555	35,895	32,285	31,853	34,362	32,080	36,585	37,539	38,003	37,010
Southwest	21,440	22,500	23,625	25,845	27,725	29,420	27,337	27,847	27,798	27,467	29,304	30,745	31,315	30,212
Total Provinces	143,750	139,905	143,955	161,595	168,865	178,255	168,569	172,224	174,416	169,107	183,015	189,331	187,351	186,222

Source: Chinese State Statistical Bureau  
April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA



China Soybean Area by Province  
(1,000 hectares)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	8	8	8	9	9	8	10	10	13	11	14	12	10	9
Tianjin	21	23	25	24	24	26	31	38	42	42	47	45	49	54
Hebei	276	261	290	262	262	269	301	370	383	389	416	403	431	419
Shanxi	129	139	129	174	174	161	166	199	223	221	245	252	238	233
Nei Monggol	183	171	194	219	219	193	219	264	275	311	318	301	301	357
Liaoning	509	473	461	409	409	372	393	410	395	381	370	349	326	302
Jilin	577	556	605	500	500	397	478	489	486	545	537	464	431	438
Heilongjiang	1,665	1,630	1,800	2,136	1,693	1,795	2,167	2,197	2,400	2,429	2,264	2,079	2,094	2,160
Shanghai	2	1	2	2	2	2	2	4	5	7	6	5	5	5
Jiangsu	240	236	325	338	312	286	318	350	352	318	309	245	178	192
Zhejiang	65	70	71	74	62	61	60	64	68	68	70	66	64	63
Anhui	653	611	738	781	775	750	646	704	674	573	590	523	314	421
Fujian	50	58	79	83	75	76	74	79	85	86	87	90	92	95
Jiangxi	126	115	123	140	135	132	136	138	135	131	138	138	139	148
Shandong	634	695	719	605	512	483	511	621	583	521	487	448	403	414
Henan	859	918	1,194	1,145	1,040	943	880	973	910	675	673	640	515	499
Hubei	224	174	161	162	157	159	168	183	172	167	174	165	151	140
Hunan	132	131	139	164	160	161	165	173	177	172	182	182	185	177
Guangdong	130	139	140	154	139	136	124	126	123	122	116	115	109	105
Guangxi	153	173	218	273	258	230	211	220	201	185	204	213	206	199
Sichuan	191	171	172	171	175	183	193	198	199	194	191	192	189	182
Guizhou	108	109	119	121	119	128	122	121	133	131	130	126	128	122
Yunan	47	44	48	54	64	67	64	64	65	67	71	74	77	78
Xizang	-	1	1	0	1	0	0	0	0	0	0	25	0	0
Shaanxi	195	212	201	193	214	196	202	217	251	273	280	288	287	275
Gansu	32	31	33	34	38	41	47	52	54	55	53	61	61	70
Qinghai	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ningxia	22	21	16	20	21	20	22	23	30	33	34	38	38	41
Xinjiang	15	15	13	18	19	13	9	9	11	15	20	13	14	16
Hainan	-	-	-	-	-	-	-	-	-	-	7	7	7	8
Northeast	2,750	2,659	2,866	3,181	2,601	2,565	3,039	3,096	3,281	3,355	3,171	2,891	2,852	2,900
North	1,928	2,044	2,365	2,215	2,022	1,889	1,899	2,211	2,153	1,858	1,882	1,800	1,645	1,628
Northwest	447	450	457	501	511	463	498	565	622	687	705	702	701	759
East	960	919	1,135	1,196	1,150	1,099	1,026	1,121	1,100	965	975	839	560	681
Central	482	419	423	466	452	452	468	494	484	469	493	484	475	465
South	333	370	437	509	472	441	409	424	409	393	415	425	414	407
Southwest	346	326	339	346	358	377	379	383	397	391	393	417	394	382
Total Provinces	7,247	7,187	8,024	8,414	7,567	7,286	7,718	8,295	8,445	8,120	8,034	7,560	7,041	7,222

Source: Chinese State Statistical Bureau.

April 1994

Production Estimates & Crop Assessment Div., FAS, USDA

TABLE 34

## China Soybean Yield by Province

(kilograms per hectare)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	1,875	1,875	1,250	1,667	1,667	1,875	2,200	2,300	2,385	2,545	2,291	2,400	2,230	2,556
Tianjin	1,429	1,304	1,000	1,087	1,042	1,346	1,516	1,553	1,595	1,476	1,404	1,462	1,719	1,556
Hebei	1,304	1,130	1,052	1,103	954	1,022	1,279	1,114	1,198	1,203	1,012	1,326	1,314	1,050
Shanxi	1,085	935	969	1,101	977	1,118	1,066	884	946	1,204	1,134	1,199	668	966
Nei Monggol	710	731	1,005	1,038	1,119	1,192	1,315	1,553	1,335	1,531	1,178	1,582	1,498	1,120
Liaoning	1,041	1,131	1,356	1,266	1,699	1,707	1,389	1,549	1,246	1,184	654	1,223	1,113	1,056
Jilin	1,040	1,088	1,306	1,218	1,760	2,040	1,893	1,712	1,992	1,809	1,279	2,012	1,663	1,721
Heilongjiang	1,114	1,353	1,119	1,220	1,409	1,618	1,448	1,721	1,598	1,626	1,289	1,567	1,479	1,616
Shanghai	5,000	5,000	2,500	2,500	5,000	5,000	5,500	2,750	2,800	2,143	2,528	2,250	2,357	2,400
Jiangsu	1,250	1,229	1,462	1,435	1,667	1,503	1,752	2,054	1,881	2,016	1,962	1,843	1,513	2,026
Zhejiang	1,615	1,714	1,620	1,757	1,774	1,967	1,833	1,828	1,912	1,809	1,724	1,715	1,793	1,921
Anhui	781	810	1,226	800	1,181	913	1,090	1,163	1,309	1,099	1,314	1,059	883	1,347
Fujian	900	1,207	1,139	1,265	1,067	1,250	1,257	1,177	1,165	1,105	1,226	1,248	1,107	1,389
Jiangxi	952	1,000	894	1,107	963	1,023	1,066	906	1,059	1,122	1,177	1,228	1,188	1,514
Shandong	1,128	1,209	1,154	1,215	1,260	1,294	1,556	1,525	1,767	1,775	1,608	1,880	2,440	1,809
Henan	925	1,002	1,290	651	1,231	1,029	1,173	770	1,213	1,036	1,240	1,356	1,284	1,242
Hubei	1,228	661	1,087	988	1,019	1,384	1,417	1,585	1,605	1,485	1,692	1,603	1,368	1,764
Hunan	1,174	1,031	1,187	1,250	1,313	1,398	1,321	1,410	1,407	1,331	1,419	1,398	1,313	1,424
Guangdong	769	827	857	942	791	882	952	1,008	1,049	1,057	1,141	1,209	1,157	1,324
Guangxi	621	578	642	788	717	696	673	636	607	573	789	600	657	799
Sichuan	1,099	1,199	1,308	1,520	1,571	1,749	1,741	1,747	1,628	1,675	1,668	1,803	1,798	1,841
Guizhou	648	734	840	826	840	1,055	902	1,157	910	992	996	1,013	1,058	721
Yunan	1,383	1,591	1,563	1,574	1,406	1,493	1,500	1,484	1,292	1,388	1,437	1,346	1,254	1,128
Xizang	0	0	0	0	0	0	0	0	0	0	0	2,413	5,000	0
Shaanxi	744	849	522	699	794	842	906	968	996	1,070	944	1,016	913	964
Gansu	1,406	1,613	1,061	1,029	1,316	1,220	1,362	1,308	1,426	1,127	1,340	1,262	1,024	1,514
Qinghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ningxia	909	714	625	1,000	1,190	1,250	1,182	1,043	1,133	1,091	700	624	706	829
Xinjiang	1,333	1,333	1,154	1,389	1,579	1,538	1,667	2,000	2,182	2,200	2,185	2,525	2,042	2,000
Hainan	--	--	--	--	--	--	--	--	--	--	811	874	955	1,000
Northeast	1,085	1,258	1,197	1,226	1,522	1,696	1,510	1,696	1,614	1,606	1,213	1,597	1,465	1,574
North	1,066	1,091	1,199	901	1,180	1,112	1,294	1,070	1,348	1,318	1,283	1,467	1,504	1,315
Northwest	805	867	788	918	1,018	1,058	1,157	1,292	1,209	1,309	1,103	1,287	1,185	1,103
East	964	990	1,322	1,041	1,352	1,133	1,347	1,486	1,535	1,460	1,556	1,347	1,199	1,599
Central	1,141	871	1,064	1,116	1,106	1,283	1,284	1,334	1,380	1,330	1,448	1,419	1,294	1,555
South	721	770	801	914	794	850	863	849	856	840	979	906	894	1,076
Southwest	997	1,089	1,180	1,286	1,299	1,472	1,430	1,517	1,332	1,402	1,402	1,519	1,453	1,340
Total Provinces	1,029	1,096	1,162	1,073	1,290	1,331	1,360	1,400	1,443	1,434	1,273	1,455	1,379	1,427

Source: Chinese State Statistical Bureau.

April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA



TABLE 35

## China Soybean Production by Province

(1,000 metric tons)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	15	15	10	15	15	15	22	23	31	28	31	28	22	23
Tianjin	30	30	25	25	25	35	47	59	67	62	66	66	84	84
Hebei	360	295	305	300	250	275	385	412	459	468	421	535	566	440
Shanxi	140	130	125	175	170	180	177	176	211	266	278	302	159	225
Nei Monggol	130	125	195	245	245	230	288	410	367	476	374	476	451	400
Liaoning	530	535	625	580	695	635	546	635	492	451	242	427	363	319
Jilin	600	605	790	715	880	810	905	837	968	986	687	933	717	754
Heilongjiang	1,855	2,205	2,015	2,605	2,385	2,905	3,137	3,780	3,835	3,950	2,918	3,258	3,098	3,491
Shanghai	10	5	5	5	10	10	11	11	14	15	15	12	11	12
Jiangsu	300	290	475	485	520	430	557	719	662	641	607	451	269	389
Zhejiang	105	120	115	130	110	120	110	117	130	123	120	114	115	121
Anhui	510	495	905	625	915	685	704	819	882	630	776	554	277	567
Fujian	45	70	90	105	80	95	93	93	99	95	107	112	102	132
Jiangxi	120	115	110	155	130	135	145	125	143	147	162	169	165	224
Shandong	715	840	830	735	645	625	795	947	1,030	925	784	843	983	749
Henan	795	920	1,540	745	1,280	970	1,032	749	1,104	699	835	867	661	620
Hubei	275	115	175	160	160	220	238	290	276	248	294	264	206	247
Hunan	155	135	165	205	210	225	218	244	249	229	258	254	243	252
Guangdong	100	115	120	145	110	120	118	127	129	129	132	139	126	139
Guangxi	95	100	140	215	185	160	142	140	122	106	161	128	135	159
Sichuan	210	205	225	260	275	320	336	346	324	325	319	346	340	335
Guizhou	70	80	100	100	100	135	110	140	121	130	130	128	135	88
Yunan	65	70	75	85	90	100	96	95	84	93	102	100	97	88
Xizang	--	--	--	--	--	--	--	--	--	--	--	60	1	1
Shaanxi	145	180	105	135	170	165	183	210	250	292	264	293	262	265
Gansu	45	50	35	35	50	50	64	68	77	62	71	77	62	106
Qinghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ningxia	20	15	10	20	25	25	26	24	34	36	24	24	27	34
Xinjiang	20	20	15	25	30	20	15	18	24	33	44	34	29	32
Hainan	--	--	--	--	--	--	--	--	--	--	6	6	7	8
Northeast	2,985	3,345	3,430	3,900	3,960	4,350	4,588	5,252	5,295	5,387	3,847	4,618	4,178	4,564
North	2,055	2,230	2,835	1,995	2,385	2,100	2,458	2,366	2,902	2,448	2,415	2,641	2,475	2,141
Northwest	360	390	360	460	520	490	576	730	752	899	777	904	831	837
East	925	910	1,500	1,245	1,555	1,245	1,382	1,666	1,688	1,409	1,518	1,131	672	1,089
Central	550	365	450	520	500	580	601	659	668	624	714	687	614	723
South	240	285	350	465	375	375	353	360	350	330	406	385	370	438
Southwest	345	355	400	445	465	555	542	581	529	548	551	634	573	512
Total Provinces	7,460	7,880	9,325	9,030	9,760	9,695	10,500	11,614	12,184	11,645	10,228	11,000	9,713	10,304

Source: Chinese State Statistical Bureau.

April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA

TABLE 36

## China Peanut Area by Province

(1,000 hectares)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	22	19	18	15	14	13	15	15	13	12	12	11	11	12
Tianjin	9	7	9	9	8	7	10	12	11	10	9	9	9	9
Hebei	196	237	262	269	248	240	332	340	310	301	302	296	299	304
Shanxi	2	4	6	6	6	11	24	25	22	25	26	25	23	23
Nei Monggol	--	--	--	--	--	--	--	--	--	--	0	0	0	8
Liaoning	83	98	107	122	106	144	252	162	87	84	83	78	93	90
Jilin	3	8	10	6	7	7	13	7	4	4	5	6	9	11
Heilongjiang	2	3	6	4	3	1	1	1	1	0	1	0	1	1
Shanghai	--	--	--	--	--	--	--	--	--	1	0	1	0	1
Jiangsu	78	84	109	131	94	100	134	136	125	121	116	109	103	107
Zhejiang	6	9	9	8	6	6	7	8	8	9	9	8	8	8
Anhui	96	146	149	128	101	112	138	141	130	132	124	116	94	116
Fujian	80	81	86	91	79	81	87	90	92	90	87	88	90	90
Jiangxi	46	48	49	50	49	52	64	80	90	93	92	92	92	118
Shandong	562	624	669	624	598	632	919	850	766	744	732	712	699	689
Henan	140	207	196	145	141	191	361	379	409	434	435	441	449	482
Hubei	36	41	37	34	34	43	66	71	65	65	66	64	62	65
Hunan	44	45	42	37	36	38	53	66	67	69	72	73	78	88
Guangdong	387	405	430	431	364	385	401	415	395	369	324	324	315	315
Guangxi	154	142	134	144	146	157	171	184	174	157	157	167	166	166
Sichuan	86	87	95	110	110	134	163	168	158	157	153	151	151	154
Guizhou	16	12	13	13	13	17	26	31	31	29	27	26	26	26
Yunan	22	23	27	29	28	29	33	33	31	30	30	31	31	31
Xizang	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Shaanxi	6	9	10	10	11	20	48	40	36	42	46	40	36	30
Gansu	--	--	--	--	--	--	--	--	--	--	--	0	0	0
Qinghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ningxia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xinjiang	1	0	1	0	1	0	0	0	0	0	0	0	0	1
Hainan	--	--	--	--	--	--	--	--	--	--	36	38	37	41
Northeast	88	108	122	132	115	152	266	169	92	88	89	84	102	102
North	931	1,099	1,160	1,068	1,015	1,094	1,660	1,621	1,530	1,526	1,516	1,494	1,490	1,519
Northwest	6	9	11	10	12	20	48	41	36	43	47	40	37	39
East	179	239	267	267	201	218	279	285	263	263	250	234	205	232
Central	127	133	128	121	118	134	183	217	223	227	230	229	231	271
South	620	627	650	666	589	623	660	688	660	615	605	618	608	612
Southwest	124	123	135	152	152	180	222	233	220	215	210	208	207	211
Total Provinces	2,074	2,339	2,472	2,416	2,201	2,421	3,318	3,253	3,022	2,977	2,946	2,907	2,880	2,986

Source: Chinese State Statistical Bureau.

April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA



## China Peanut Yield by Province

(kilograms per hectare)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	1,000	1,368	944	1,200	1,286	1,769	2,267	1,800	2,231	2,167	2,386	2,711	2,840	2,750
Tianjin	778	1,286	889	1,111	875	1,429	1,900	1,833	2,000	1,500	2,050	2,174	2,442	2,222
Hebei	1,179	1,511	1,340	1,439	1,452	1,667	1,747	1,400	1,723	1,528	1,602	1,951	2,015	1,645
Shanxi	1,000	1,250	1,167	1,667	1,667	2,091	2,083	1,680	1,909	2,000	2,016	1,939	1,221	1,652
Nei Monggol	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Liaoning	1,048	1,398	1,589	1,434	2,142	2,271	1,599	1,370	1,494	1,583	553	1,705	1,652	1,433
Jilin	1,333	1,250	1,000	1,500	1,143	1,429	1,231	1,286	1,500	1,750	1,519	2,442	1,654	2,273
Heilongjiang	500	1,000	1,000	1,000	1,000	2,000	1,000	2,000	1,000	--	1,875	2,143	1,875	2,000
Shanghai	--	--	--	--	--	--	--	--	--	1,000	3,750	--	--	1,000
Jiangsu	1,474	1,464	1,872	1,763	2,362	2,420	2,545	2,684	2,696	2,917	2,680	2,768	2,730	2,850
Zhejiang	2,000	1,444	1,444	1,375	1,167	1,500	1,571	1,500	1,875	1,556	1,641	1,707	1,795	2,000
Anhui	1,365	1,288	1,664	1,117	1,535	1,607	1,754	1,993	2,000	2,182	2,169	2,250	1,590	2,405
Fujian	1,463	1,383	1,826	1,912	1,646	1,815	1,874	1,800	1,772	1,500	1,692	1,813	1,516	1,989
Jiangxi	1,326	1,063	1,163	1,260	1,265	1,423	1,609	1,700	1,756	1,484	1,644	1,658	1,620	1,822
Shandong	1,886	2,250	2,078	2,244	2,508	2,848	2,852	2,408	3,000	2,617	2,027	2,961	3,319	2,393
Henan	957	1,198	944	959	1,433	1,634	1,670	1,417	1,866	1,760	2,054	2,403	2,088	1,975
Hubei	1,833	1,439	1,649	1,824	1,794	2,047	2,045	2,127	2,246	1,923	2,160	2,008	1,851	2,415
Hunan	977	956	1,024	1,108	1,139	1,237	1,340	1,409	1,403	1,304	1,381	1,309	1,263	1,420
Guangdong	1,109	1,284	1,384	1,510	1,404	1,478	1,509	1,552	1,461	1,509	1,710	1,787	1,782	1,914
Guangxi	942	908	978	1,125	1,199	1,325	1,281	1,239	1,023	1,057	1,409	1,447	1,368	1,639
Sichuan	1,372	1,391	1,295	1,482	1,700	1,821	1,675	1,607	1,715	1,701	1,760	1,780	1,866	1,825
Guizhou	938	1,083	923	1,077	1,308	1,412	1,269	1,452	1,194	1,069	1,119	1,091	1,364	1,115
Yunan	727	783	963	1,034	929	1,069	1,091	1,030	935	933	975	942	1,009	968
Xizang	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Shaanxi	1,167	1,333	1,200	1,800	1,818	2,300	2,104	1,900	2,167	2,286	1,334	1,771	1,896	1,933
Gansu	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Qinghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ningxia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xinjiang	--	--	--	--	--	--	--	--	--	--	--	--	3,750	1,000
Hainan	--	--	--	--	--	--	--	--	--	--	--	--	1,185	1,293
Northeast	1,045	1,389	1,516	1,417	2,070	2,224	1,579	1,373	1,489	1,602	618	1,758	1,654	1,529
North	1,563	1,864	1,689	1,840	2,066	2,347	2,354	1,943	2,410	2,138	1,953	2,572	2,646	2,101
Northwest	1,333	1,333	1,091	1,900	1,750	2,350	2,104	1,878	2,194	2,256	1,342	1,766	1,885	1,564
East	1,447	1,356	1,742	1,438	1,910	1,977	2,129	2,309	2,331	2,490	2,391	2,466	2,169	2,591
Central	1,339	1,143	1,258	1,372	1,390	1,560	1,694	1,747	1,785	1,555	1,709	1,644	1,561	1,834
South	1,115	1,212	1,358	1,482	1,387	1,483	1,497	1,504	1,391	1,397	1,596	1,657	1,593	1,809
Southwest	1,202	1,244	1,193	1,362	1,513	1,661	1,545	1,502	1,532	1,516	1,567	1,570	1,676	1,611
Total Provinces	1,361	1,539	1,548	1,621	1,795	1,989	2,008	1,808	2,042	1,845	1,820	2,191	2,188	1,994

Source: Chinese State Statistical Bureau.

April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA

TABLE 38

## China Peanut Production by Province

(1,000 metric tons)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	22	26	17	18	18	23	34	27	29	26	28	30	32	33
Tianjin	7	9	8	10	7	10	19	22	22	15	19	20	21	20
Hebei	231	358	351	387	360	400	580	476	534	460	484	578	602	500
Shanxi	2	5	7	10	10	23	50	42	42	50	52	49	28	38
Nei Monggol	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Liaoning	87	137	170	175	227	327	403	222	130	133	46	133	153	129
Jilin	4	10	10	9	8	10	16	9	6	7	8	14	15	25
Heilongjiang	1	3	6	4	3	2	1	2	1	1	1	1	1	2
Shanghai	0	0	0	0	0	0	0	0	0	1	1	--	--	1
Jiangsu	115	123	204	231	222	242	341	365	337	353	312	301	281	305
Zhejiang	12	13	13	11	7	9	11	12	15	14	14	14	14	16
Anhui	131	188	248	143	155	180	242	281	260	288	270	262	150	279
Fujian	117	112	157	174	130	147	163	162	163	135	148	160	136	179
Jiangxi	61	51	57	63	62	74	103	136	158	138	151	152	149	215
Shandong	1,060	1,404	1,390	1,400	1,500	1,800	2,621	2,047	2,298	1,947	1,483	2,107	2,320	1,649
Henan	134	248	185	139	202	312	603	537	763	764	894	1,060	938	952
Hubei	66	59	61	62	61	88	135	151	146	125	142	128	114	157
Hunan	43	43	43	41	41	47	71	93	94	90	100	96	98	125
Guangdong	429	520	595	651	511	569	605	644	577	557	554	579	561	603
Guangxi	145	129	131	162	175	208	219	228	178	166	221	242	227	272
Sichuan	118	121	123	163	187	244	273	270	271	267	270	269	281	281
Guizhou	15	13	12	14	17	24	33	45	37	31	30	28	35	29
Yunan	16	18	26	30	26	31	36	34	29	28	29	29	31	30
Xizang	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Shaanxi	7	12	12	18	20	46	101	76	78	96	62	70	69	58
Gansu	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Qinghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ningxia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xinjiang	0	1	1	1	1	1	1	1	1	1	1	1	1	1
Hainan	--	--	--	--	--	--	--	--	--	--	42	43	44	53
Northeast	92	150	185	187	238	338	420	232	137	141	55	148	169	156
North	1,455	2,049	1,959	1,965	2,097	2,568	3,908	3,150	3,688	3,262	2,960	3,844	3,941	3,192
Northwest	8	12	12	19	21	47	101	77	79	97	63	71	70	61
East	259	324	465	384	384	431	594	658	613	655	597	577	445	601
Central	170	152	161	166	164	209	310	379	398	353	393	376	361	497
South	691	760	883	987	817	924	988	1,035	918	859	965	1,024	968	1,107
Southwest	149	153	161	207	230	299	343	350	337	326	329	326	347	340
Total Provinces	2,822	3,600	3,826	3,916	3,951	4,815	6,664	5,882	6,170	5,493	5,363	6,368	6,301	5,954

Source: Chinese State Statistical Bureau.

April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA



China Rapeseed Area by Province

(1,000 hectares)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	2	2	3	3	1	-	-	-	-	-	-	-	-	-
Tianjin	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hebei	17	16	15	7	16	16	22	23	27	36	27	28	33	31
Shanxi	9	7	7	6	7	6	6	20	16	14	10	8	6	6
Nei Monggol	71	78	81	78	68	69	88	67	66	73	48	60	75	91
Liaoning	25	12	7	2	-	-	-	-	-	-	-	-	-	-
Jilin	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heilongjiang	4	4	2	7	8	9	20	30	54	81	58	66	65	98
Shanghai	51	52	72	72	56	51	70	78	80	85	92	93	92	94
Jiangsu	199	170	286	353	314	250	443	476	496	406	459	441	483	484
Zhejiang	183	231	284	241	229	214	274	281	264	261	268	290	295	292
Anhui	258	298	493	639	555	507	778	768	952	688	740	774	897	828
Fujian	43	45	46	41	28	20	17	16	26	22	20	22	24	25
Jiangxi	214	218	252	256	246	238	246	273	303	300	359	541	657	741
Shandong	18	10	17	11	7	1	1	3	13	35	8	5	2	1
Henan	187	222	256	207	173	122	180	260	291	312	247	226	246	198
Hubei	190	175	259	356	333	311	361	437	431	419	452	550	610	534
Hunan	306	254	370	395	357	329	341	398	415	459	525	625	718	698
Guangdong	23	22	24	26	16	19	19	20	19	17	17	15	15	15
Guangxi	9	6	12	11	9	8	9	9	9	8	10	14	19	25
Sichuan	400	431	577	639	545	570	840	847	835	813	798	839	901	867
Guizhou	181	190	284	336	275	272	317	369	412	397	361	369	412	393
Yunnan	85	79	97	111	102	92	88	92	92	90	75	81	94	96
Xizang	10	12	11	11	11	11	10	9	9	10	11	11	12	-
Shaanxi	76	90	125	96	106	97	114	150	152	111	120	132	146	152
Gansu	35	37	41	53	56	58	66	76	82	79	80	86	92	92
Qinghai	69	75	75	75	75	76	91	96	98	102	106	110	113	113
Ningxia	1	1	2	3	5	5	4	3	0	0	0	0	0	0
Xinjiang	95	107	101	88	71	61	90	113	127	118	101	117	126	102
Hainan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northeast	29	16	9	9	9	9	20	30	54	81	58	66	65	98
North	233	257	298	233	204	145	209	306	346	397	293	267	287	236
Northwest	346	390	424	394	381	366	453	505	525	482	454	505	552	550
East	691	750	1,136	1,305	1,154	1,022	1,564	1,603	1,792	1,439	1,560	1,598	1,767	1,698
Central	710	647	882	1,007	935	878	948	1,108	1,149	1,179	1,336	1,716	1,985	1,973
South	76	73	83	78	52	47	45	45	54	47	46	51	58	65
Southwest	677	711	969	1,096	934	944	1,255	1,318	1,347	1,311	1,245	1,300	1,419	1,356
Total Provinces	2,761	2,844	3,801	4,122	3,669	3,413	4,494	4,916	5,267	4,936	4,993	5,503	6,133	5,976

Source: Chinese State Statistical Bureau.

April 1994

Production Estimates & Crop Assessment Div., FAS, USDA

TABLE 40

## China Rapeseed Yield by Province

(kilograms per hectare)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	500	500	333	333	--	--	--	--	--	--	--	--	--	--
Tianjin	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hebei	765	563	667	857	938	563	636	304	481	667	185	831	519	581
Shanxi	667	429	857	1,333	1,571	1,000	1,167	1,100	938	500	1,093	1,062	957	833
Nei Monggol	352	231	272	385	221	435	534	343	333	438	351	730	438	604
Liaoning	400	333	429	500	--	--	--	--	--	--	--	--	--	--
Jilin	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heilongjiang	250	500	0	143	500	222	300	400	778	469	879	1,066	1,073	1,010
Shanghai	2,314	1,846	2,042	2,319	1,804	2,275	2,186	1,910	2,025	2,235	1,623	1,958	2,155	2,319
Jiangsu	1,307	1,194	1,507	1,926	1,621	1,816	1,650	1,658	1,740	1,537	1,475	1,847	1,767	1,981
Zhejiang	1,388	1,177	1,349	1,539	1,258	1,528	1,555	1,470	1,428	1,586	1,364	1,609	1,485	1,647
Anhui	857	913	1,312	1,657	1,346	1,402	1,387	1,181	1,211	730	925	1,233	852	1,266
Fujian	349	444	543	610	464	500	529	563	423	591	652	697	805	760
Jiangxi	472	330	460	625	573	609	638	575	568	583	554	686	677	661
Shandong	1,000	700	1,000	1,182	1,143	3,000	2,000	1,333	1,923	514	861	1,111	1,304	1,000
Henan	690	604	766	1,217	1,179	984	1,183	1,215	1,557	276	913	1,411	869	1,182
Hubei	784	663	861	1,199	949	1,106	1,139	1,078	1,104	1,017	1,163	1,289	1,373	1,328
Hunan	748	567	827	1,035	866	1,006	1,006	925	1,036	976	944	993	1,031	1,016
Guangdong	304	318	375	346	250	316	368	400	263	353	420	129	592	533
Guangxi	333	333	417	455	444	500	444	556	444	375	514	350	514	640
Sichuan	1,305	1,350	1,444	1,842	1,706	1,621	1,462	1,547	1,599	1,456	1,414	1,524	1,626	1,877
Guizhou	492	711	1,120	1,357	949	1,004	880	995	1,017	912	812	1,097	1,398	1,270
Yunan	318	532	753	901	1,039	913	818	728	1,087	956	894	1,195	1,398	1,552
Xizang	800	917	1,091	1,000	909	1,182	1,400	1,333	1,333	1,400	1,500	1,584	1,543	--
Shaanxi	961	856	1,088	1,240	1,160	1,186	1,439	1,200	1,303	838	1,661	1,461	1,450	1,362
Gansu	629	892	756	849	964	1,052	1,076	1,066	1,098	1,089	1,304	1,362	1,130	1,446
Qinghai	812	907	813	973	933	961	1,055	1,042	1,020	990	976	1,066	1,140	1,212
Ningxia	0	1,000	500	0	200	400	250	333	--	--	--	--	--	--
Xinjiang	495	523	535	614	620	705	811	903	1,024	966	833	1,040	1,160	1,294
Hainan	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Northeast	379	375	333	222	556	222	300	400	778	469	879	1,066	1,073	1,010
North	712	595	772	1,202	1,162	952	1,129	1,144	1,462	340	851	1,335	833	1,093
Northwest	645	646	719	812	803	888	996	964	1,027	884	1,116	1,173	1,128	1,207
East	1,234	1,124	1,415	1,745	1,425	1,573	1,528	1,409	1,426	1,202	1,204	1,513	1,276	1,594
Central	673	512	731	988	819	1,046	961	899	937	890	914	991	1,019	967
South	329	397	470	500	385	426	467	489	352	468	540	429	652	662
Southwest	954	1,082	1,275	1,591	1,399	1,371	1,269	1,332	1,385	1,256	1,209	1,383	1,544	1,678
Total Provinces	870	838	1,069	1,372	1,168	1,232	1,248	1,196	1,254	1,022	1,089	1,264	1,213	1,331

Source: Chinese State Statistical Bureau.

April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA



TABLE 41

## China Rapeseed Production by Province

(1,000 metric tons)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	1	1	1	1	--	--	--	--	--	--	--	--	--	--
Tianjin	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hebei	13	9	10	6	15	9	14	7	13	--	5	23	17	18
Shanxi	6	3	6	8	11	6	7	22	15	--	11	8	6	5
Nei Monggol	25	18	22	30	15	30	47	23	22	--	17	44	33	55
Liaoning	10	4	3	1	--	--	--	--	--	--	--	--	--	--
Jilin	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heilongjiang	1	2	0	1	4	2	6	12	42	--	--	70	70	99
Shanghai	118	96	147	167	101	116	153	149	162	190	150	182	199	218
Jiangsu	260	203	431	680	509	454	731	789	863	624	677	814	853	959
Zhejiang	254	272	383	371	288	327	426	413	377	414	366	467	438	481
Anhui	221	272	647	1,059	747	711	1,079	907	1,153	502	685	954	764	1,048
Fujian	15	20	25	25	13	10	9	9	11	13	13	15	19	19
Jiangxi	101	72	116	160	141	145	157	157	172	175	199	371	445	490
Shandong	18	7	17	13	8	3	2	4	25	18	7	6	2	1
Henan	129	134	196	252	204	120	213	316	453	86	226	319	214	234
Hubei	149	116	223	427	316	344	411	471	476	426	526	709	838	709
Hunan	229	144	306	409	309	331	343	368	430	448	496	621	740	709
Guangdong	7	7	9	9	4	6	7	8	5	6	7	2	9	8
Guangxi	3	2	5	5	4	4	4	5	4	3	5	5	10	16
Sichuan	522	582	833	1,177	930	924	1,228	1,310	1,335	1,184	1,128	1,279	1,465	1,627
Guizhou	89	135	318	456	261	273	279	367	419	362	293	405	576	499
Yunan	27	42	73	100	106	84	72	67	100	86	67	97	131	149
Xizang	8	11	12	11	10	13	14	12	12	14	17	17	18	--
Shaanxi	73	77	136	119	123	115	164	180	198	93	199	193	211	207
Gansu	22	33	31	45	54	61	71	81	90	86	104	117	104	133
Qinghai	56	68	61	73	70	73	96	100	100	101	103	117	129	137
Ningxia	0	1	1	0	1	2	1	1	0	0	0	0	--	--
Xinjiang	47	56	54	54	44	43	73	102	130	114	84	122	146	132
Hainan	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Northeast	11	6	3	2	5	2	6	12	42	38	51	70	70	99
North	166	153	230	280	237	138	236	350	506	135	249	356	239	258
Northwest	223	252	305	320	306	325	451	487	539	426	507	593	623	664
East	853	843	1,608	2,277	1,645	1,608	2,390	2,258	2,555	1,730	1,878	2,417	2,254	2,706
Central	478	331	645	995	766	918	911	996	1,077	1,049	1,221	1,701	2,023	1,908
South	25	29	39	39	20	20	21	22	19	22	25	22	38	43
Southwest	646	769	1,235	1,744	1,307	1,294	1,593	1,755	1,866	1,646	1,505	1,798	2,190	2,275
Total Provinces	2,402	2,384	4,065	5,656	4,287	4,205	5,607	5,881	6,604	5,046	5,436	6,958	7,437	7,953

Source: Chinese State Statistical Bureau.

April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA

TABLE 42

## China Sunflowerseed Area by Province

(1,000 hectares)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	2	2	3	2	1	0	0	0	0	0	0	--	--	--
Tianjin	5	12	22	22	17	24	33	19	17	19	17	15	13	13
Hebei	7	33	44	38	33	68	102	65	69	80	67	62	66	69
Shanxi	8	33	47	45	52	98	158	113	103	113	91	100	122	141
Nei Monggol	57	163	143	150	154	215	301	258	223	190	177	172	197	226
Liaoning	88	170	185	78	47	49	78	81	50	43	37	38	32	26
Jilin	93	148	196	151	133	240	296	181	161	168	132	119	132	109
Heilongjiang	54	192	267	216	190	206	338	138	106	74	62	65	65	74
Shanghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jiangsu	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Zhejiang	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anhui	0	0	0	0	0	0	0	0	0	0	0	0	--	--
Fujian	0	0	0	0	0	0	0	0	0	0	0	0	--	--
Jiangxi	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Shandong	1	3	2	1	1	1	0	0	0	0	0	--	--	--
Henan	0	0	0	0	0	0	0	0	0	1	1	--	1	1
Hubei	--	--	--	--	--	--	--	--	--	--	--	--	--	3
Hunan	2	1	1	1	1	1	1	1	1	1	1	1	--	--
Guangdong	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guangxi	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sichuan	2	2	3	4	3	3	4	3	3	2	3	3	3	4
Guizhou	7	10	11	11	10	9	8	9	8	7	7	6	6	6
Yunan	1	1	2	3	2	3	4	3	3	2	2	2	2	2
Xizang	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Shaanxi	--	--	--	--	5	12	19	14	13	20	18	18	31	35
Gansu	8	16	14	11	9	11	13	13	11	20	9	10	11	11
Qinghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ningxia	2	10	8	5	5	5	7	6	6	6	6	6	7	7
Xinjiang	30	50	91	77	70	66	111	134	113	93	88	96	104	81
Hainan	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Northeast	235	510	648	445	370	496	712	400	318	285	231	222	229	209
North	24	82	118	108	104	191	293	198	190	212	175	177	201	224
Northwest	97	238	256	242	243	309	451	425	366	321	298	302	349	360
East	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Central	2	1	1	1	1	1	1	1	1	1	1	1	0	3
South	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southwest	9	13	16	17	15	15	16	15	13	11	11	10	11	12
Total Provinces	367	845	1,040	814	733	1,013	1,474	1,040	887	830	716	712	789	809

Source: Chinese State Statistical Bureau.

April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA



TABLE 43

## China Sunflowerseed Yield by Province

(kilograms per hectare)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	857	923	768	808	1,031	1,250	1,395	0	0	0	0	0	0	0
Tianjin	891	1,178	1,417	1,360	1,106	1,563	1,100	1,546	1,388	941	1,265	1,460	1,587	1,308
Hebei	993	824	1,093	1,281	1,084	1,119	1,092	397	983	1,166	495	1,138	775	1,000
Shanxi	904	967	1,055	1,327	1,584	1,709	1,043	1,102	1,004	1,084	1,127	1,395	962	1,170
Nei Monggol	892	1,012	1,662	2,137	2,513	1,961	1,640	1,879	1,735	1,842	2,141	2,438	2,540	2,513
Liaoning	751	775	657	650	1,031	1,136	988	937	1,084	687	535	903	1,195	1,154
Jilin	1,119	1,417	1,516	1,576	2,555	2,238	1,183	1,716	1,821	1,583	1,744	2,707	2,715	2,560
Heilongjiang	906	1,222	1,497	1,908	1,520	1,190	746	1,191	610	943	1,051	1,228	1,012	1,392
Shanghai	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jiangsu	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zhejiang	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anhui	-	750	750	750	750	-	1,365	1,395	2,000	2,385	-	-	-	-
Fujian	-	0	750	0	750	750	345	-	-	-	-	-	-	-
Jiangxi	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shandong	708	692	725	703	964	1,295	1,200	1,286	667	1,125	-	-	-	-
Henan	536	563	375	250	1,500	1,500	1,275	700	1,400	1,355	1,000	-	-	-
Hubei	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hunan	554	671	750	708	708	788	763	859	1,000	899	-	-	-	-
Guangdong	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Guangxi	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sichuan	780	894	934	974	869	1,141	935	1,207	1,214	1,598	1,395	1,277	1,200	1,000
Guizhou	705	654	684	671	650	677	640	574	641	554	606	690	698	667
Yunnan	1,250	1,458	1,941	1,661	1,792	2,186	2,041	1,783	1,480	1,666	2,308	2,609	2,500	1,500
Xizang	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shaanxi	-	-	-	-	1,029	1,198	702	994	746	1,055	843	1,056	869	857
Gansu	1,250	1,718	1,910	1,816	2,557	2,688	2,773	3,047	2,778	2,264	2,707	2,843	2,642	2,182
Qinghai	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ningxia	455	870	930	1,182	1,479	1,313	1,502	1,736	1,607	1,543	1,579	1,552	1,531	1,571
Xinjiang	965	917	1,013	1,081	1,257	1,393	1,517	1,563	1,619	1,731	1,708	1,893	1,853	1,963
Hainan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northeast	932	1,131	1,263	1,576	1,832	1,692	954	1,378	1,300	1,284	1,363	1,966	2,019	1,971
North	905	929	1,124	1,299	1,337	1,478	1,068	1,106	1,031	1,103	898	1,317	936	1,125
Northwest	935	1,033	1,423	1,768	2,102	1,826	1,603	1,784	1,693	1,772	1,940	2,179	2,172	2,200
East	-	750	750	750	750	-	1,365	1,395	2,000	2,385	0	0	0	1,000
Central	554	671	750	708	708	788	763	859	1,000	899	0	0	0	1,333
South	0	0	750	750	750	750	345	0	0	0	0	0	0	0
Southwest	766	762	912	897	878	1,084	1,043	960	924	958	1,071	1,146	1,125	917
Total Provinces	926	1,077	1,281	1,580	1,829	1,682	1,175	1,485	1,398	1,422	1,486	1,881	1,799	1,820

Source: Chinese State Statistical Bureau.

April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA

TABLE 44

## China Sunflowerseed Production by Province

(1,000 metric tons)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	2	2	2	1	1	1	0	-	-	-	-	-	-	-
Tianjin	5	14	31	30	19	37	36	29	24	18	21	22	20	17
Hebei	7	27	48	48	36	76	111	65	68	93	33	70	51	69
Shanxi	7	31	49	60	82	168	165	125	103	122	102	140	117	165
Nei Monggol	51	165	237	320	387	421	494	484	386	350	379	419	501	568
Liaoning	66	131	122	50	48	56	77	76	54	29	20	34	38	30
Jilin	104	210	297	238	340	538	350	311	294	267	230	322	358	279
Heilongjiang	49	235	400	413	289	246	252	164	65	70	65	80	66	103
Shanghai	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jiangsu	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Zhejiang	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anhui	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fujian	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jiangxi	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shandong	1	2	1	1	1	1	0	0	0	0	0	0	-	-
Henan	0	0	0	0	0	0	0	0	1	1	1	1	-	1
Hubei	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Hunan	1	1	1	1	1	1	1	1	1	1	0	0	-	-
Guangdong	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Guangxi	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sichuan	1	2	3	4	3	4	4	4	3	3	4	4	4	4
Guizhou	5	6	7	7	6	6	5	5	5	4	4	4	4	4
Yunan	1	2	4	5	4	7	7	6	4	3	4	4	4	3
Xizang	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shaanxi	-	27	-	-	5	14	13	14	10	21	15	19	27	30
Gansu	10	27	27	20	23	30	37	39	30	27	24	29	28	24
Qinghai	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ningxia	1	8	8	6	7	7	10	11	10	10	10	9	10	11
Xinjiang	29	46	92	83	88	92	169	209	183	161	151	182	192	159
Hainan	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Northeast	219	577	819	701	678	840	679	551	413	366	315	436	462	412
North	22	76	133	140	138	283	313	219	196	234	157	233	188	252
Northwest	91	246	364	428	510	564	723	758	619	569	579	658	758	792
East	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Central	1	1	1	1	1	1	1	1	1	1	0	0	0	4
South	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southwest	7	10	15	16	13	16	16	15	12	10	12	12	12	11

Total Provinces	340	910	1,332	1,286	1,340	1,704	1,732	1,544	1,240	1,180	1,064	1,339	1,420	1,472
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Source: Chinese State Statistical Bureau.

April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA



TABLE 45

China Sesameseed Area by Province

(1,000 hectares)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	3	3	3	3	2	2	3	2	2	1	1	1	1	1
Tianjin	6	5	6	6	6	10	13	9	7	6	5	5	4	3
Hebei	40	52	53	69	64	85	123	105	91	83	64	60	58	47
Shanxi	4	6	9	8	7	9	15	20	19	19	24	30	40	42
Nei Monggol	-	-	-	-	-	21	36	12	5	3	7	6	15	20
Liaoning	10	12	13	34	38	53	93	23	7	3	5	5	15	25
Jilin	1	1	2	1	1	-	-	-	-	-	-	0	1	3
Heilongjiang	0	0	1	2	2	-	-	-	-	-	-	0	0	1
Shanghai	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jiangsu	11	5	6	10	6	10	13	11	8	7	6	6	5	7
Zhejiang	4	6	5	5	3	4	5	5	5	4	4	4	4	4
Anhui	149	120	127	148	113	122	169	191	161	124	122	105	88	100
Fujian	3	4	3	3	2	2	2	1	1	2	1	1	2	2
Jiangxi	69	59	60	65	57	57	62	61	57	48	56	54	51	55
Shandong	23	27	22	18	14	20	36	22	16	11	9	9	7	8
Henan	305	280	291	356	293	265	252	280	276	206	232	208	198	228
Hubei	128	114	135	157	120	140	173	208	162	141	139	127	128	126
Hunan	16	11	11	11	6	7	9	11	7	6	5	5	5	6
Guangdong	22	19	21	19	15	11	10	9	12	10	4	4	3	4
Guangxi	15	17	17	19	18	19	14	13	11	9	11	11	11	10
Sichuan	21	21	20	18	13	13	11	10	9	7	7	6	7	8
Guizhou	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Yunan	1	2	2	1	1	1	1	1	1	1	1	1	1	1
Xizang	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shaanxi	10	10	9	8	6	5	7	10	14	14	14	14	28	39
Gansu	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Qinghai	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ningxia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xinjiang	2	2	1	1	1	1	1	1	1	0	0	1	0	1
Hainan	-	-	-	-	-	-	-	-	-	-	7	7	7	7
Northeast	11	14	15	37	42	54	94	23	7	3	5	5	16	29
North	381	374	383	460	385	392	443	438	410	325	335	312	307	329
Northwest	11	12	11	10	7	26	45	23	19	17	20	21	43	60
East	164	131	138	163	122	136	187	207	174	135	132	115	97	111
Central	213	183	206	233	183	204	244	280	226	195	201	186	184	187
South	40	39	41	41	35	31	26	23	23	21	21	22	23	23
Southwest	22	23	23	21	15	14	13	12	10	8	8	7	9	10
Total Province	843	776	818	965	789	858	1,052	1,007	869	704	722	669	678	749

Source: Chinese State Statistical Bureau.

April 1994

Production Estimates & Crop Assessment Div., FAS, USDA

TABLE 46

# China Sesameseed Yield by Province

(kilograms per hectare)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	195	457	367	262	419	543	512	520	600	579	660	0	1,500	0
Tianjin	211	528	380	448	554	724	452	566	653	321	645	592	672	667
Hebei	438	617	528	529	486	575	417	432	502	260	390	452	503	426
Shanxi	337	398	398	558	612	638	767	715	675	814	750	762	529	667
Nei Monggol	-	-	-	-	-	480	236	378	305	210	153	489	413	500
Liaoning	272	330	526	556	787	633	472	388	423	417	270	634	597	600
Jilin	231	393	375	519	696	1,125	399	455	0	0	0	0	1,875	1,000
Heilongjiang	-	375	625	682	471	875	446	1,065	350	180	585	-	-	-
Shanghai	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jiangsu	440	261	699	595	667	922	915	964	951	1,075	1,155	1,193	1,000	1,143
Zhejiang	961	533	796	857	615	811	924	841	854	786	795	818	750	1,000
Anhui	595	281	739	326	531	631	785	659	580	716	480	694	625	700
Fujian	516	611	647	512	490	540	482	510	660	486	630	1,250	500	500
Jiangxi	549	257	425	575	438	456	470	386	482	326	480	481	549	655
Shandong	468	606	618	637	757	760	853	878	944	858	795	808	1,143	1,000
Henan	348	286	608	140	372	351	575	489	540	534	276	688	591	588
Hubei	820	271	793	541	367	857	1,029	918	809	730	690	922	844	1,008
Hunan	688	364	545	636	500	714	778	727	714	500	732	741	800	833
Guangdong	227	263	286	263	267	364	400	444	417	600	566	1,944	667	750
Guangxi	267	294	294	316	333	316	286	231	273	333	281	268	364	400
Sichuan	476	667	800	611	462	538	545	500	556	571	606	500	694	625
Guizhou	333	462	618	458	519	482	400	469	375	0	0	0	0	0
Yunan	250	554	569	477	375	577	455	436	286	570	0	0	0	0
Xizang	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shaanxi	419	310	290	277	165	308	543	623	778	718	517	655	755	692
Gansu	-	-	-	-	-	-	744	165	-	-	-	-	-	-
Qinghai	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ningxia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xinjiang	489	490	450	614	656	477	586	777	600	1,041	735	2,143	0	0
Hainan	-	-	-	-	-	-	-	-	-	-	455	303	450	429
Northeast	273	357	533	568	762	630	468	391	429	333	197	625	636	655
North	360	361	590	230	413	436	555	505	556	486	352	650	582	584
Northwest	455	333	273	300	286	423	489	435	684	647	392	705	633	617
East	591	290	739	362	541	662	797	681	603	733	521	724	649	739
Central	723	273	675	549	393	740	877	796	721	626	638	789	761	898
South	275	308	317	317	314	355	308	348	391	476	374	586	441	478
Southwest	500	652	783	571	467	571	538	500	500	625	504	405	573	500
Total Provinces	495	335	623	355	442	554	657	614	604	577	468	701	641	686

Source: Chinese State Statistical Bureau.

April 1994

Production Estimates & Crop Assessment Div., FAS, USDA



China Sesameseed Production by Province

(1,000 metric tons)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	1	1	1	1	1	1	1	1	1	1	1	0	1	0
Tianjin	1	3	2	3	3	7	6	5	5	2	3	3	3	2
Hebei	17	32	28	36	31	49	51	45	45	21	25	27	29	20
Shanxi	1	2	3	5	4	6	12	15	13	15	18	23	21	28
Nei Monggol	--	--	--	--	--	9	17	3	2	1	1	3	6	10
Liaoning	3	4	7	19	30	33	44	9	3	1	1	3	9	15
Jilin	0	1	1	0	1	0	0	0	0	0	0	0	1	3
Heilongjiang	0	0	1	2	1	0	0	0	0	0	0	0	--	1
Shanghai	--	--	--	--	--	0	0	0	0	0	0	0	--	--
Jiangsu	5	1	4	6	4	9	12	11	8	8	7	7	5	8
Zhejiang	4	3	4	4	2	3	5	4	4	3	3	3	3	4
Anhui	89	34	94	48	60	77	133	126	93	89	59	73	55	70
Fujian	2	2	2	1	1	1	1	0	0	1	0	1	1	1
Jiangxi	38	15	25	37	25	26	29	24	28	16	27	26	28	36
Shandong	11	17	13	12	10	15	31	19	15	9	7	7	8	8
Henan	106	80	177	50	109	93	145	137	149	110	64	143	117	134
Hubei	105	31	107	85	44	120	178	191	131	103	97	117	108	127
Hunan	11	4	6	7	3	5	7	8	5	3	4	4	4	5
Guangdong	5	5	6	5	4	4	4	4	5	6	2	7	2	3
Guangxi	4	5	5	6	6	6	4	3	3	3	3	3	4	4
Sichuan	10	14	16	11	6	7	6	5	5	4	4	3	5	5
Guizhou	0	0	1	1	0	0	0	0	0	0	0	0	--	0
Yunan	0	1	1	1	0	1	0	0	0	0	0	0	--	0
Xizang	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Shaanxi	4	3	3	2	1	2	4	6	11	10	7	9	21	27
Gansu	--	--	--	--	--	--	1	--	--	--	--	--	--	--
Qinghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ningxia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xinjiang	1	1	1	1	1	0	1	1	0	0	0	3	--	--
Hainan	--	--	--	--	--	--	--	--	--	--	3	2	3	3
Northeast	3	5	8	21	32	34	44	9	3	1	1	3	10	19
North	137	135	226	106	159	171	246	221	228	158	118	203	179	192
Northwest	5	4	3	3	2	11	22	10	13	11	8	15	27	37
East	97	38	102	59	66	90	149	141	105	99	69	83	63	82
Central	154	50	139	128	72	151	214	223	163	122	128	147	140	168
South	11	12	13	13	11	11	8	8	9	10	8	13	10	11
Southwest	11	15	18	12	7	8	7	6	5	5	4	3	5	5
Total Provinces	417	259	510	342	349	476	691	618	525	406	338	469	435	514

Source: Chinese State Statistical Bureau.

April 1994

Production Estimates & Crop Assessment Div., FAS, USDA

TABLE 48

## China Cotton Area by Province

(1,000 hectares)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	2	2	2	2	3	6	5	3	3	3	3	3	4	5
Tianjin	10	8	10	10	18	38	29	18	16	18	15	18	30	29
Hebei	557	549	530	699	826	1,047	850	707	825	928	878	911	955	882
Shanxi	221	224	204	222	228	219	121	94	99	116	119	130	147	151
Nei Monggol	--	--	--	--	--	--	--	--	--	--	1	0	0	3
Liaoning	36	38	39	46	55	73	39	18	5	10	16	19	55	75
Jilin	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heilongjiang	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Shanghai	99	104	118	108	98	94	71	32	21	16	11	13	14	15
Jiangsu	588	631	663	680	677	721	592	497	544	602	535	572	551	673
Zhejiang	86	107	108	107	105	105	93	81	71	69	60	69	68	71
Anhui	299	323	329	328	321	334	235	206	224	270	252	293	406	420
Fujian	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jiangxi	99	108	105	101	83	81	66	61	62	65	66	70	115	135
Shandong	543	737	938	1,339	1,500	1,712	1,170	1,010	1,222	1,403	1,323	1,409	1,563	1,489
Henan	555	627	642	754	794	1,162	814	620	717	916	836	823	1,193	1,248
Hubei	578	592	580	574	558	539	465	413	430	447	418	456	462	507
Hunan	161	180	171	168	131	133	102	86	64	91	94	119	133	168
Guangdong	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hainan	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guangxi	2	3	3	3	3	3	2	1	1	1	1	1	2	5
Sichuan	253	252	240	137	134	164	126	118	115	132	116	124	147	162
Guizhou	1	2	3	3	3	3	2	3	2	2	2	2	3	3
Yunan	5	5	4	4	4	3	3	2	2	2	2	2	2	2
Xizang	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Shaanxi	250	242	260	252	251	195	95	54	59	80	82	112	135	138
Gansu	7	6	6	6	7	8	6	5	5	5	5	6	8	13
Qinghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ningxia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xinjiang	161	181	232	285	277	281	254	276	356	356	367	435	547	643

Northeast	36	38	39	46	55	73	39	18	5	10	16	19	55	75
North	1,888	2,147	2,326	3,026	3,369	4,184	2,989	2,452	2,882	3,384	3,175	3,295	3,892	3,807
Northwest	418	429	498	543	535	484	355	335	420	441	454	554	690	794
East	1,072	1,165	1,218	1,223	1,201	1,254	991	816	860	958	859	947	1,039	1,179
Central	838	880	856	843	772	753	633	560	556	604	579	645	710	810
South	2	3	3	3	3	3	2	1	1	1	1	1	2	5
Southwest	259	259	247	144	141	170	131	123	119	136	120	128	152	167

Total Provinces	4,513	4,921	5,187	5,828	6,076	6,921	5,140	4,305	4,843	5,534	5,203	5,588	6,540	6,837
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Source: Chinese State Statistical Bureau.  
April 1994

Production Estimates & Crop Assessment Div., FAS, USDA



TABLE 49

## China Cotton Yield by Province

(kilograms per hectare)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	500	500	500	500	667	1,000	800	667	1,000	1,000	732	882	750	1,000
Tianjin	100	250	200	500	611	868	828	722	813	551	807	843	833	552
Hebei	208	450	419	552	908	1,003	740	723	759	621	610	627	664	347
Shanxi	294	348	324	545	421	607	612	681	788	749	854	859	762	629
Nei Monggol	--	--	--	--	--	--	--	--	--	--	--	--	--	1,000
Liaoning	444	553	564	500	945	904	615	667	600	581	494	734	764	373
Jilin	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heilongjiang	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Shanghai	899	731	627	750	786	1,128	690	688	714	789	750	928	1,143	1,000
Jiangsu	905	662	849	846	979	924	809	807	816	933	906	811	1,011	783
Zhejiang	814	776	630	916	895	1,267	871	938	915	638	695	932	1,103	845
Anhui	324	378	474	482	592	701	711	791	830	763	674	805	667	626
Fujian	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jiangxi	444	398	448	653	578	852	939	902	952	491	757	811	948	1,096
Shandong	308	729	720	717	817	1,008	908	932	1,018	811	775	692	864	455
Henan	357	648	553	432	798	748	672	644	795	695	630	821	795	528
Hubei	775	534	609	594	690	1,126	1,058	1,063	1,021	809	748	1,134	1,063	1,203
Hunan	584	533	550	583	748	962	990	965	875	481	710	1,012	1,120	1,208
Guangdong	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hainan	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guangxi	500	333	333	333	333	333	0	0	0	0	0	0	0	200
Sichuan	439	377	363	599	806	963	897	822	887	668	731	926	993	932
Guizhou	0	500	333	333	333	333	500	333	500	500	577	500	333	333
Yunan	400	200	250	250	250	333	333	500	500	556	556	500	500	500
Xizang	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Shaanxi	408	335	242	500	159	379	453	778	949	686	683	694	667	399
Gansu	286	500	667	833	1,000	1,000	833	800	1,000	1,056	1,103	1,348	1,500	1,385
Qinghai	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ningxia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xinjiang	329	436	491	512	567	683	740	783	787	780	801	1,078	1,168	1,039
Northeast	444	553	564	500	945	904	615	667	600	581	494	734	764	373
North	290	592	568	595	807	912	783	787	879	724	694	714	790	463
Northwest	376	380	363	510	381	566	665	782	812	766	783	1,003	1,074	933
East	735	600	707	746	853	908	783	811	826	861	821	820	885	734
Central	699	517	577	599	688	1,068	1,035	1,030	996	725	743	1,076	1,055	1,186
South	500	333	333	333	333	333	0	0	0	0	0	0	0	200
Southwest	436	375	360	583	780	941	878	805	874	664	726	913	974	916
Total Provinces	489	550	572	618	764	904	807	823	877	750	728	807	867	660

Source: Chinese State Statistical Bureau.  
April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA

TABLE 50

## China Cotton Production by Province

(1,000 metric tons)

Province	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93
Beijing	1	1	1	1	2	6	4	2	3	3	2	3	3	5
Tianjin	1	2	2	5	11	33	24	13	13	10	12	15	25	16
Hebei	116	247	222	386	750	1,050	629	511	626	577	536	571	634	306
Shanxi	65	78	66	121	96	133	74	64	78	87	102	112	112	95
Nei Monggol	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Liaoning	16	21	22	23	52	66	24	12	3	6	8	14	42	28
Jilin	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heilongjiang	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shanghai	89	76	74	81	77	106	49	22	15	13	8	12	16	15
Jiangsu	532	418	563	575	663	666	479	401	444	562	485	464	557	527
Zhejiang	70	83	68	98	94	133	81	76	65	44	42	64	75	60
Anhui	97	122	156	158	190	234	167	163	186	206	170	236	271	263
Fujian	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jiangxi	44	43	47	66	48	69	62	55	59	32	50	57	109	148
Shandong	167	537	675	960	1,225	1,725	1,062	941	1,244	1,137	1,025	975	1,351	677
Henan	198	406	355	326	634	869	547	399	570	637	527	676	948	659
Hubei	448	316	353	341	385	607	492	439	439	362	313	517	491	610
Hunan	94	96	94	98	98	128	101	83	56	44	67	120	149	203
Guangdong	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hainan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Guangxi	1	1	1	1	1	1	-	-	-	-	-	-	-	1
Sichuan	111	95	87	82	108	158	113	97	102	88	85	115	146	151
Guizhou	0	1	1	1	1	1	1	1	1	1	1	1	1	1
Yunan	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Xizang	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shaanxi	102	81	63	126	40	74	43	42	56	55	56	78	90	55
Gansu	2	3	4	5	7	8	5	4	5	5	5	8	12	18
Qinghai	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ningxia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xinjiang	53	79	114	146	157	192	188	216	280	278	294	469	639	668
Northeast	16	21	22	23	52	66	24	12	3	6	8	14	42	28
North	548	1,271	1,321	1,799	2,718	3,816	2,340	1,930	2,534	2,451	2,204	2,352	3,073	1,761
Northwest	157	163	181	277	204	274	236	262	341	338	355	555	741	741
East	788	699	861	912	1,024	1,139	776	662	710	825	705	776	919	865
Central	586	455	494	505	531	804	655	577	554	438	430	694	749	961
South	1	1	1	1	1	1	0	0	0	0	0	0	0	1
Southwest	113	97	89	84	110	160	115	99	104	90	87	117	148	153
Total Provinces	2,209	2,707	2,969	3,601	4,640	6,260	4,146	3,542	4,246	4,148	3,789	4,508	5,672	4,510

Source: Chinese State Statistical Bureau.  
April 1994

Production Estimates &amp; Crop Assessment Div., FAS, USDA



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